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THE

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OR,

Universal Dictionary

OF

ARTS, SCIENCES, AND LITERATURE.

PLATES. VOL. I.

AGRICULTURE — ASTRONOMICAL INSTRUMENTS.

Printed by A. Strahan,
New-Street-Square, London.

THE

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OF

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BY

ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF

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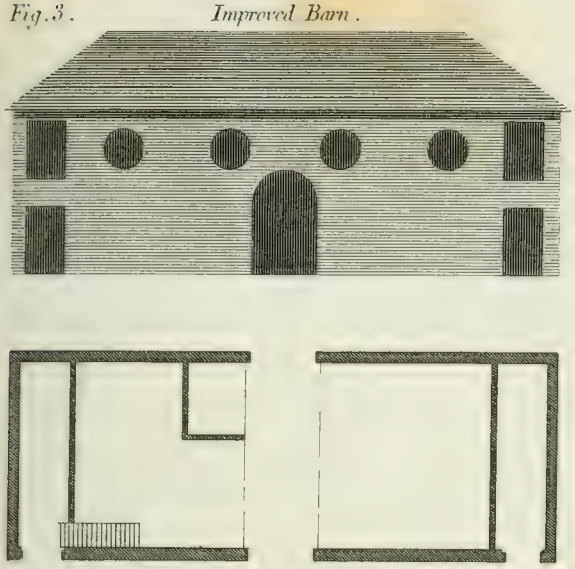
Fig. 3. Improved Barn.



Common Barn. Fig. 1.

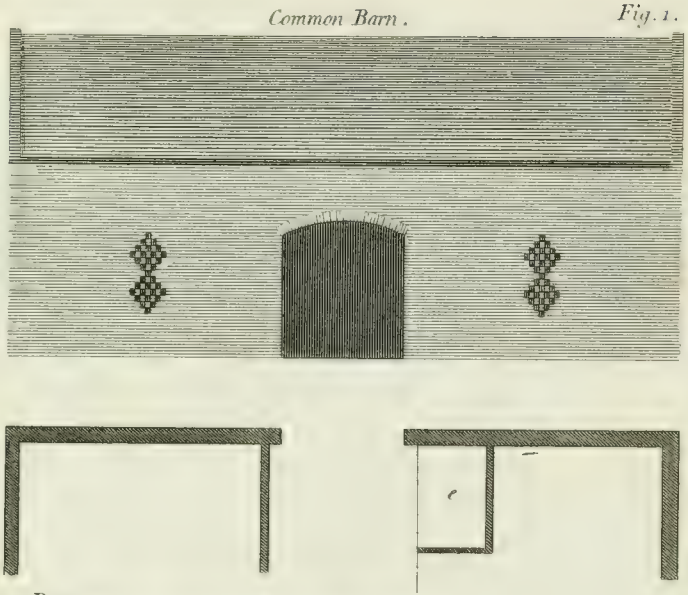
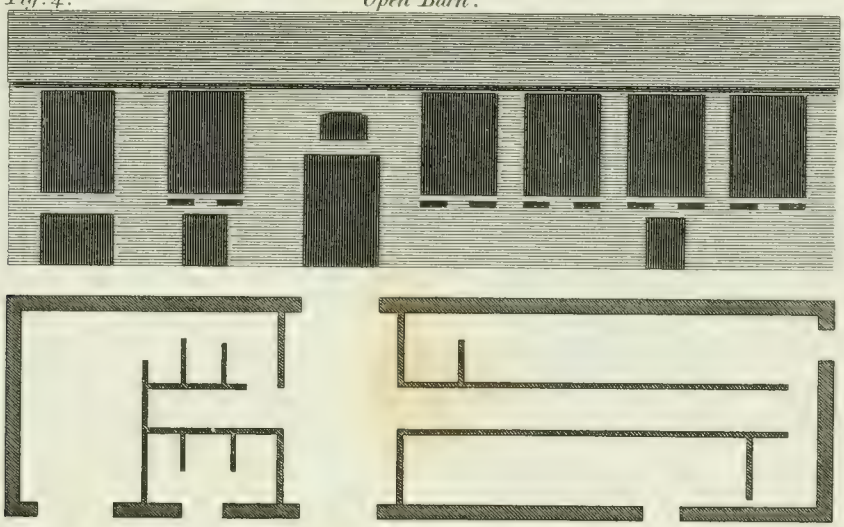


Fig. 4. Open Barn.



Double Barn. Fig. 2.

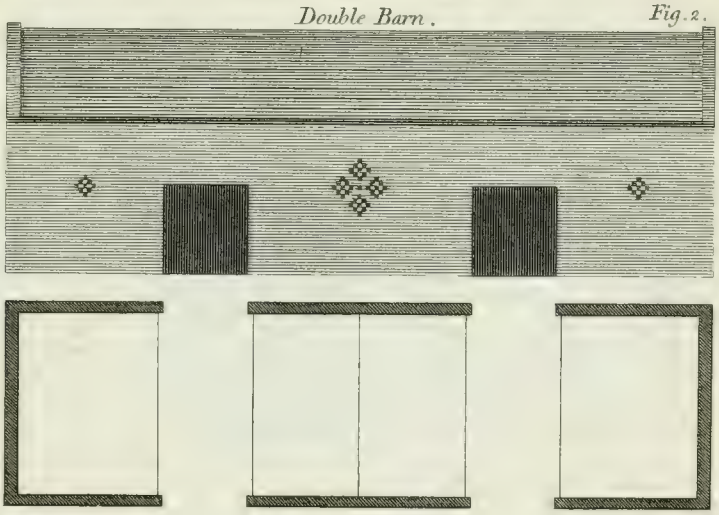
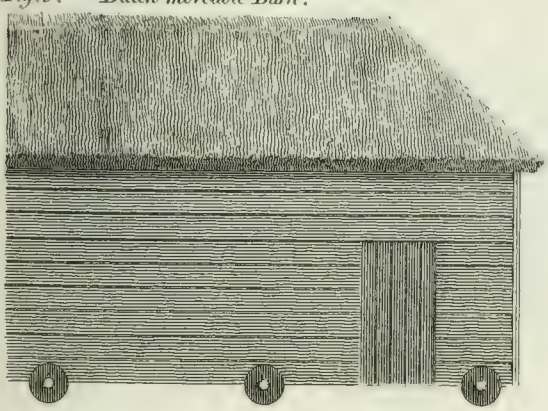


Fig. 5. Dutch moveable Barn.



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BARNS, AND THRESHING MACHINES.

Fig. 4.

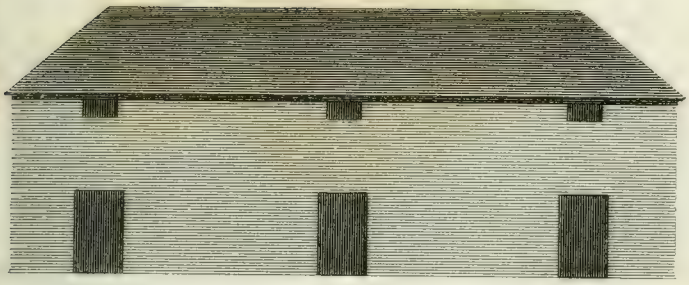
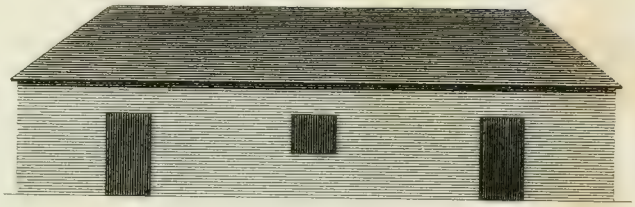


Fig. 1.



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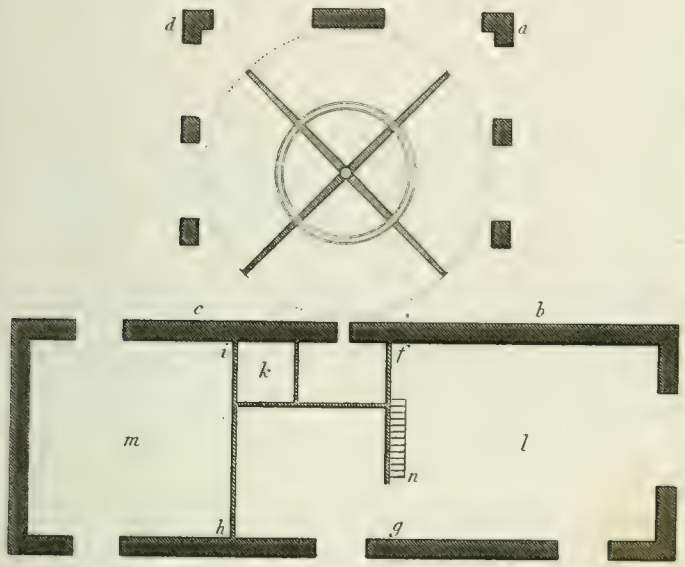

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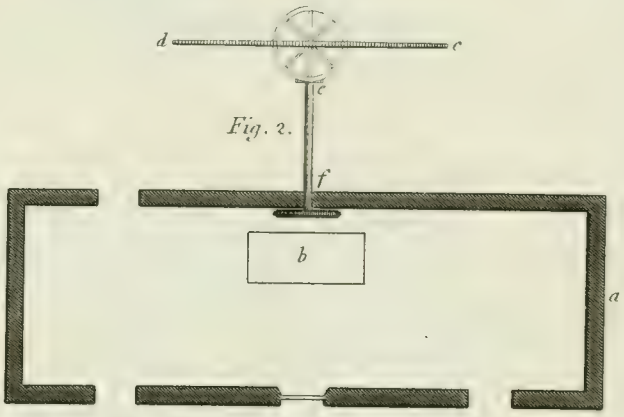

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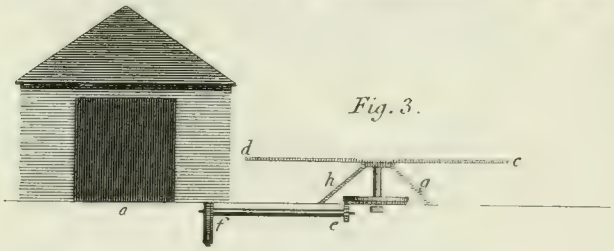
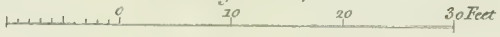


Scale for Fig.s 1.2.3.4.5 & 6.



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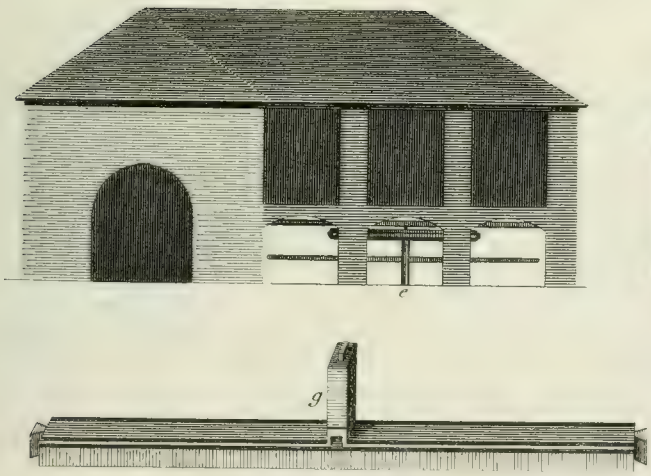

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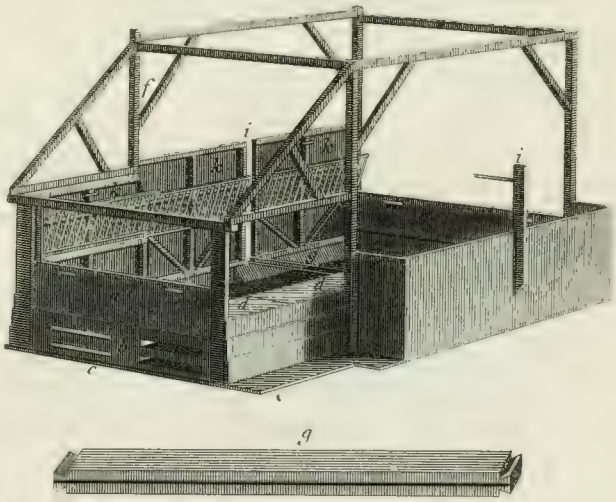

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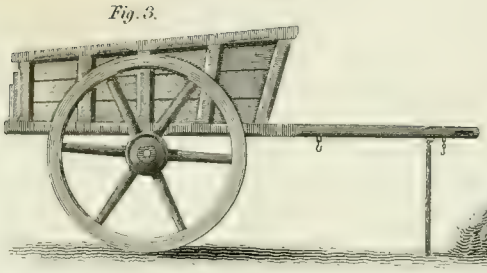
CARTS.

Fig. 1.
Blasting Stones.

Fig. 3.



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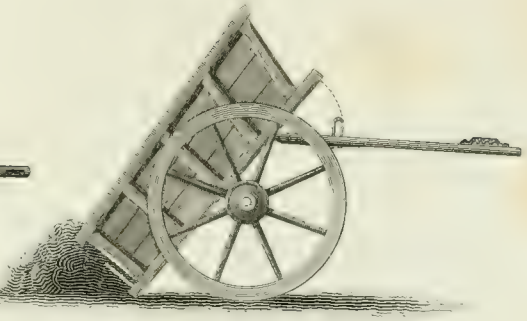

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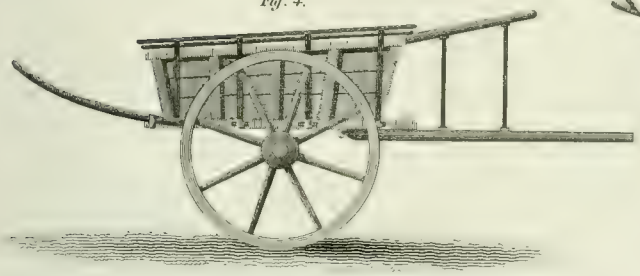
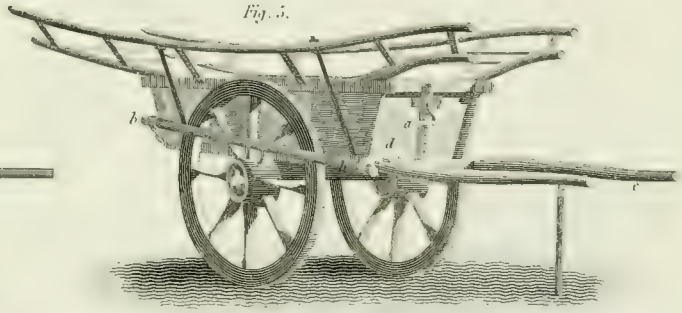


Fig. 5.



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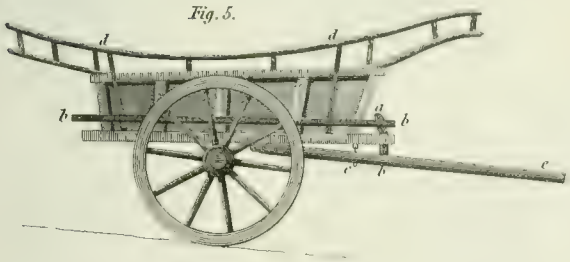

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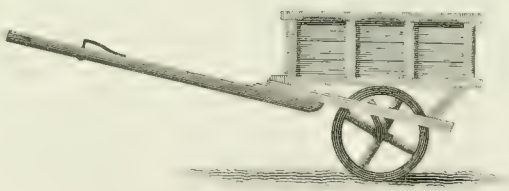

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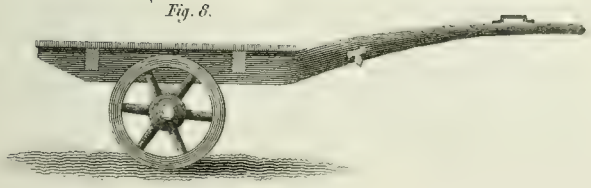

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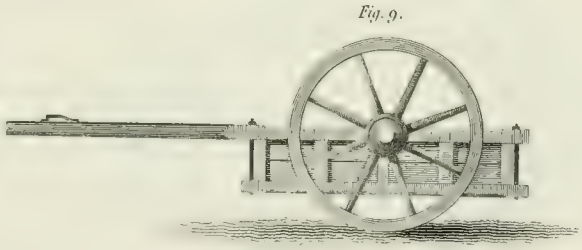

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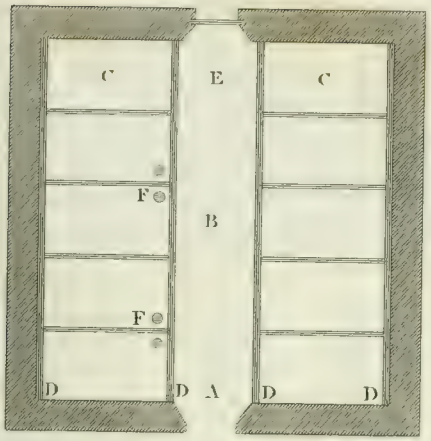
AGRICULTURE.

CALF PENS, CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.



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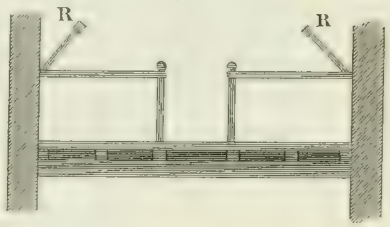
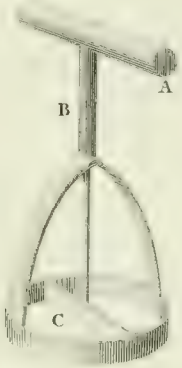


CURD CUTTER.



A *The Handle made of Wood.*
B *Stock of Iron. Cutting part made Oval — and it has 1.2. or 3. cutting pieces as* C.

Fig. 4.

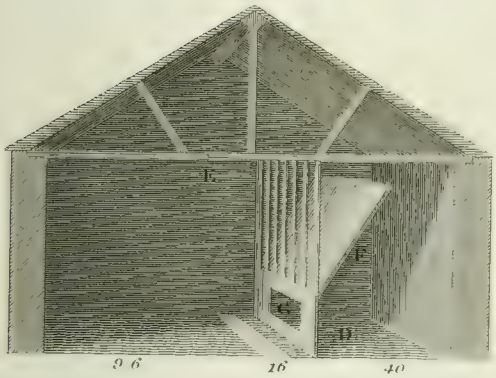
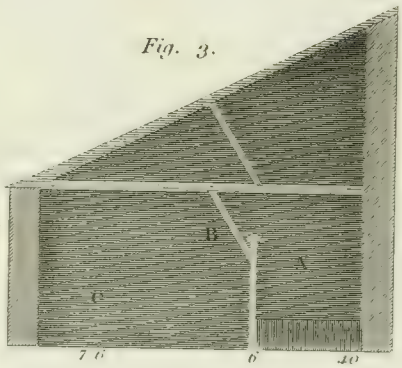


Fig. 3.



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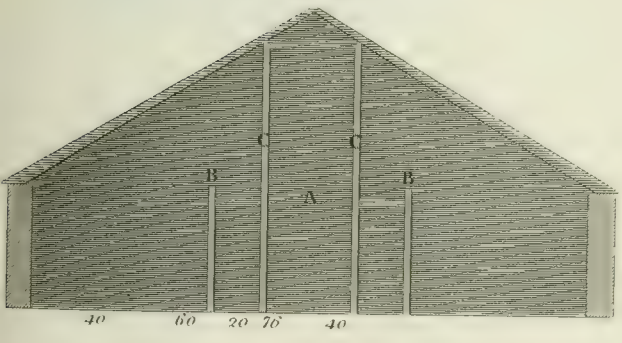

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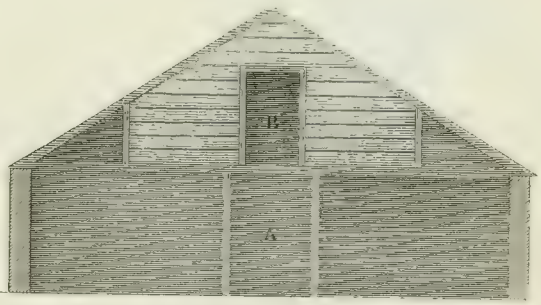

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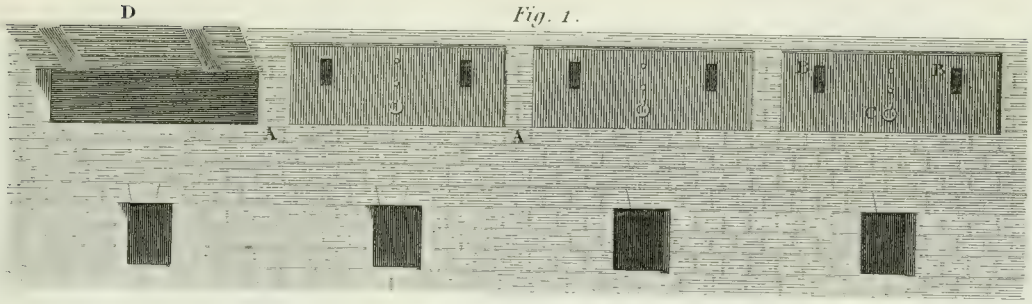
AGRICULTURE.

INTERNAL PARTS OF CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.



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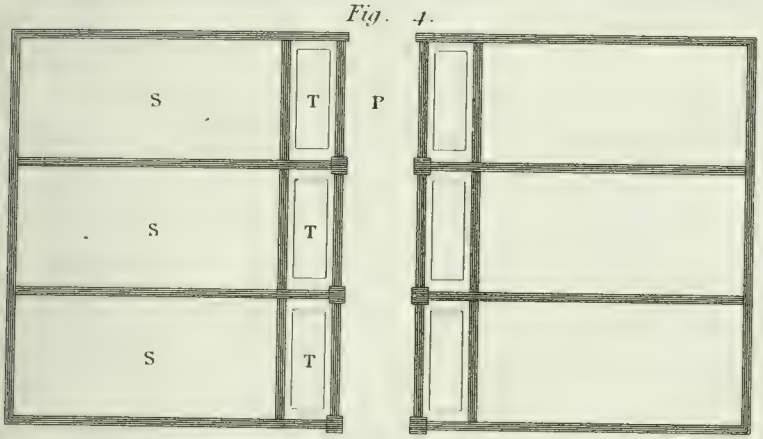

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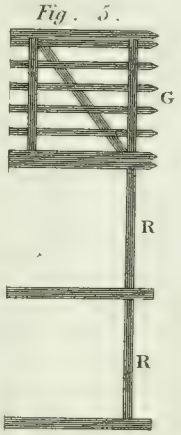

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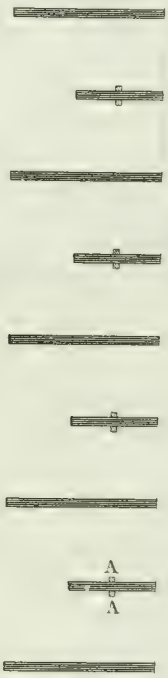

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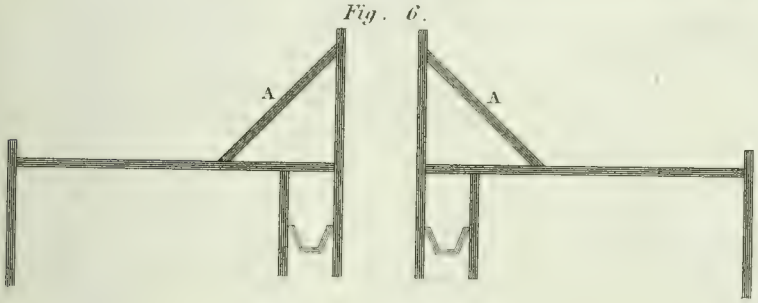

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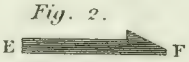

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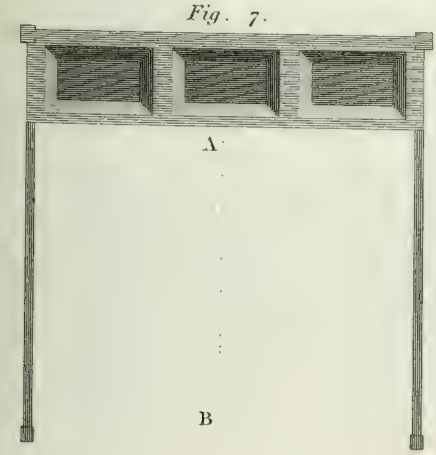

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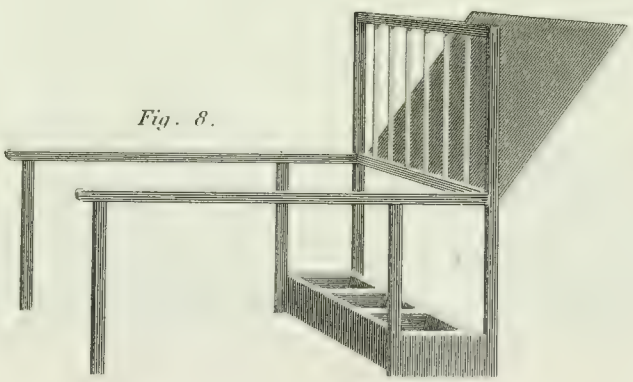

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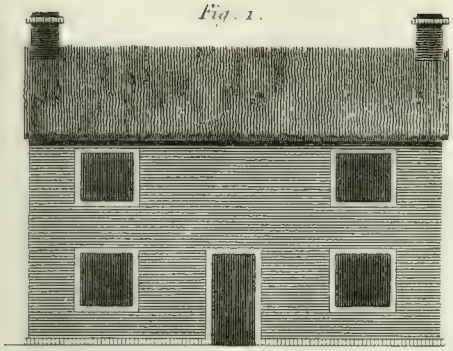
FARM COTTAGES.

Fig. 1.



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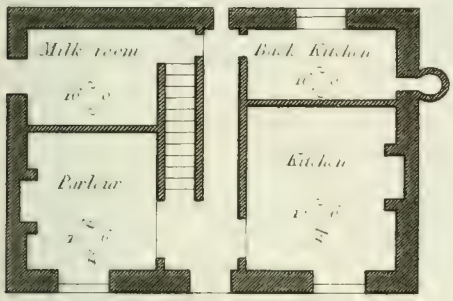

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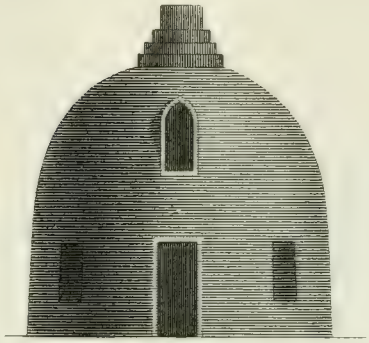

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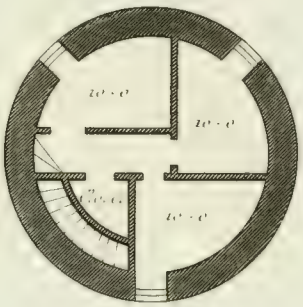

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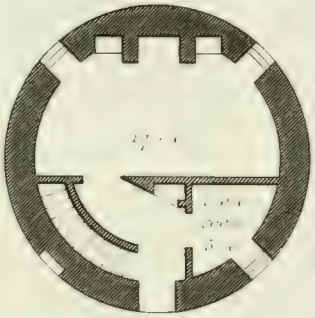

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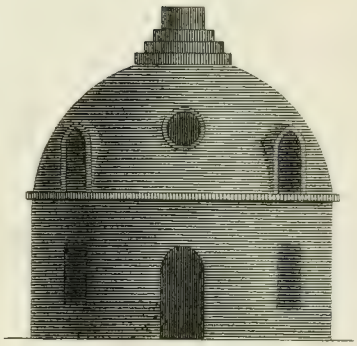

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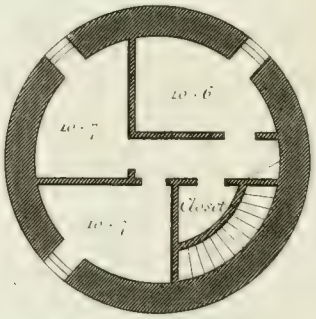

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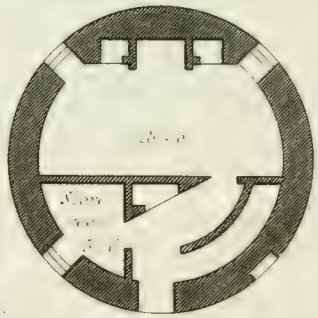
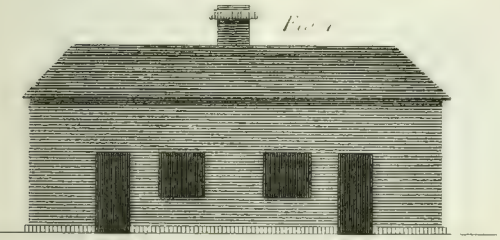


Scale of Feet.

0 5 10 15 20

Fig. 9.



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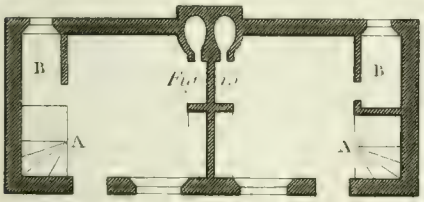

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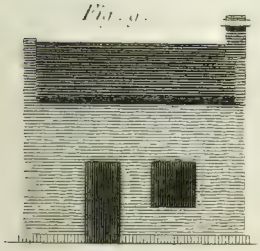

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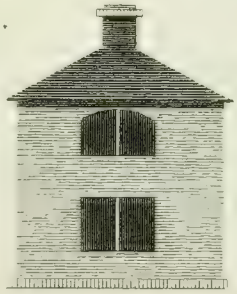

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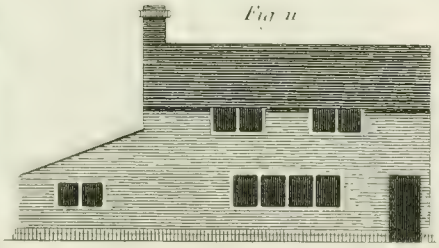
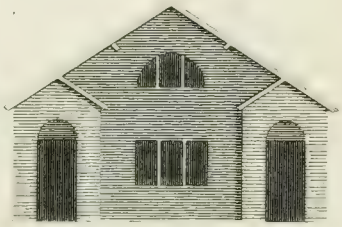


Fig. 14.



ORNAMENTAL COTTAGES.

Fig. 3.

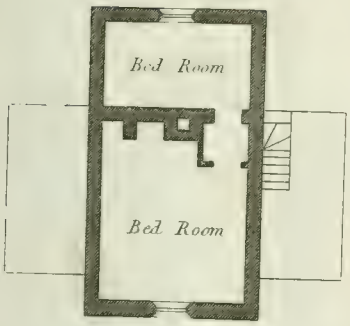


Fig 1.

Fig. 2.

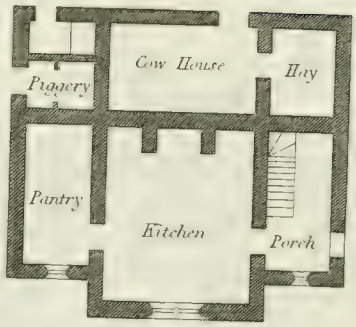


Fig. 6

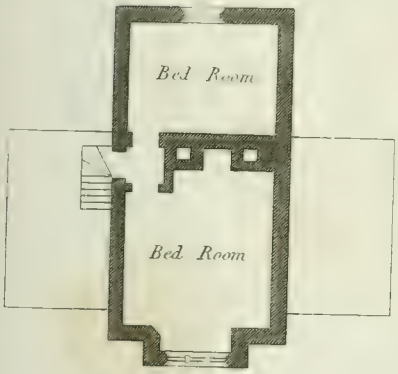


Fig 4

Fig 5

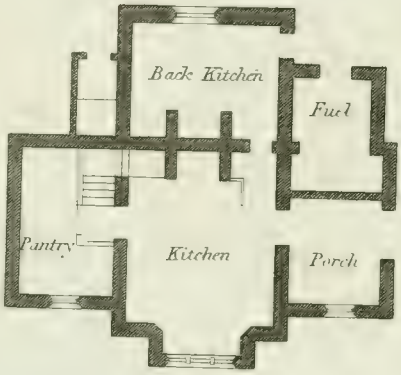
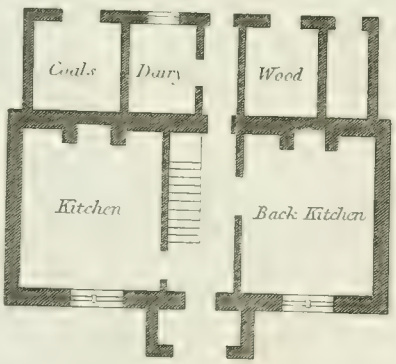


Fig. 7.

Fig. 8.



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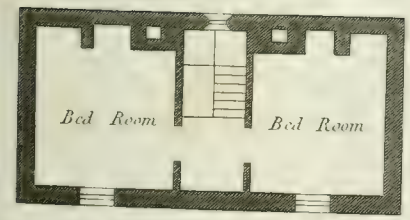

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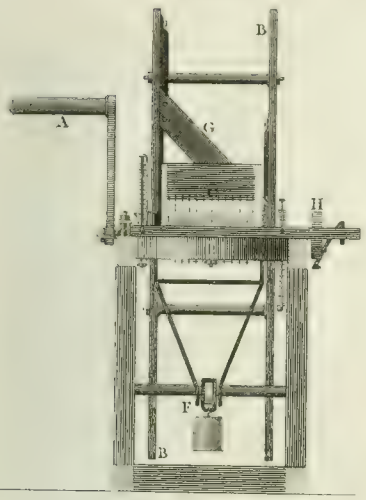
Engraved by Wilson Lowry.

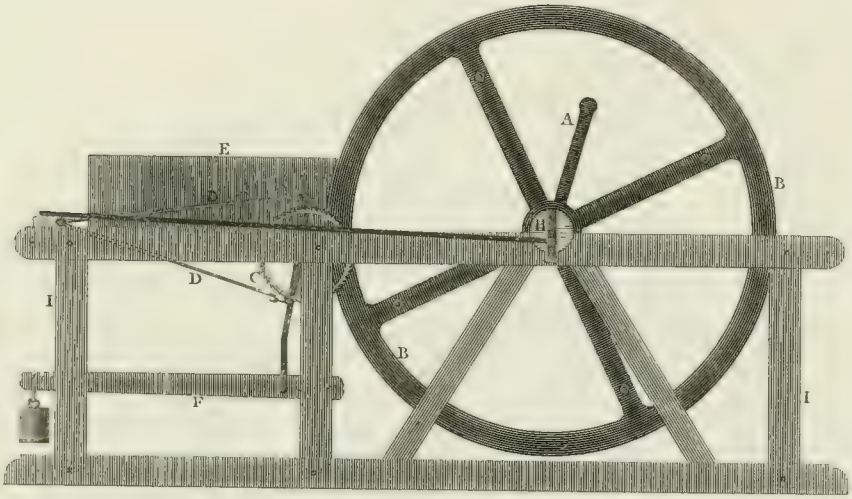
Mr. Salmon's CHAFF CUTTER, *as made by Mr. Rowntree.*

Fig. 2.



Elevation of the End.

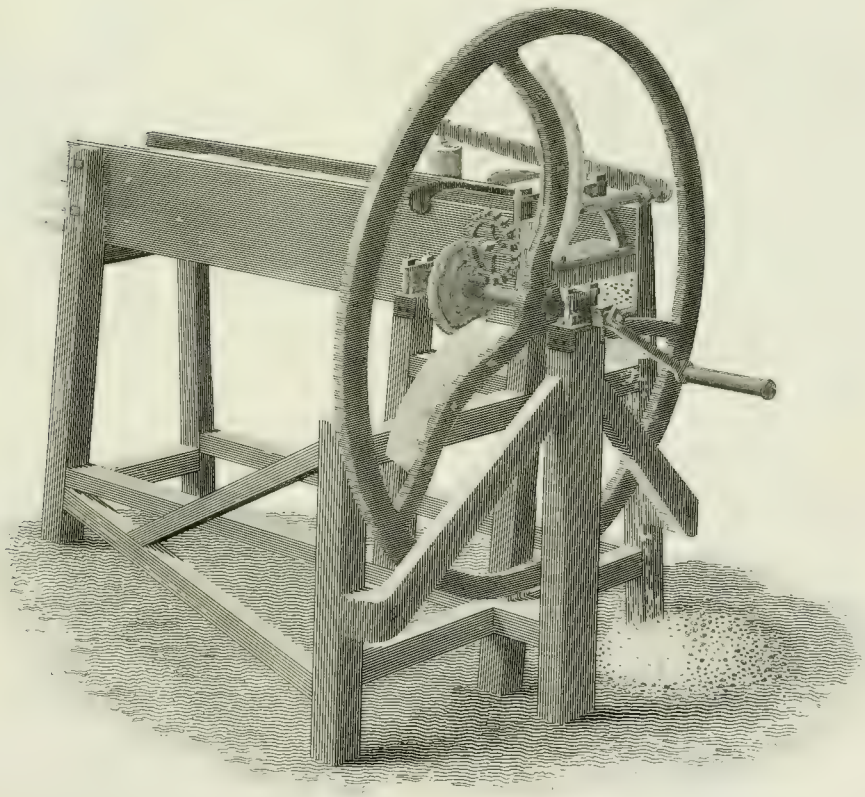
Fig. 1.



Elevation taken sideways.

Fig. 3.

Mr. Mc. Dougal's Chaff Cutter.



In viewing Fig. 3. the eye of the spectator should be placed at 12 Inc. distance from

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AGRICULTURE.

CHEESE PRESS, AND CHURNS.

Fig. 2

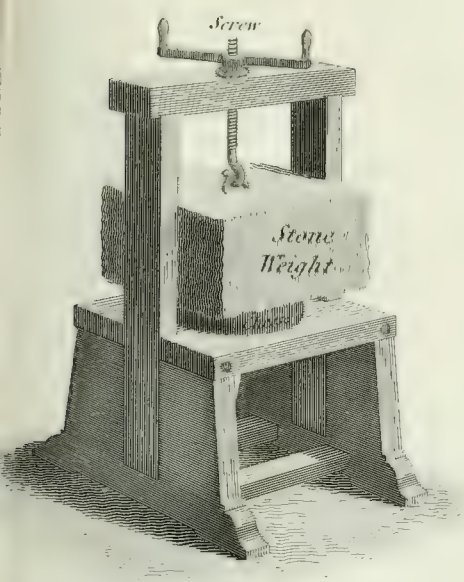


Fig. 1.

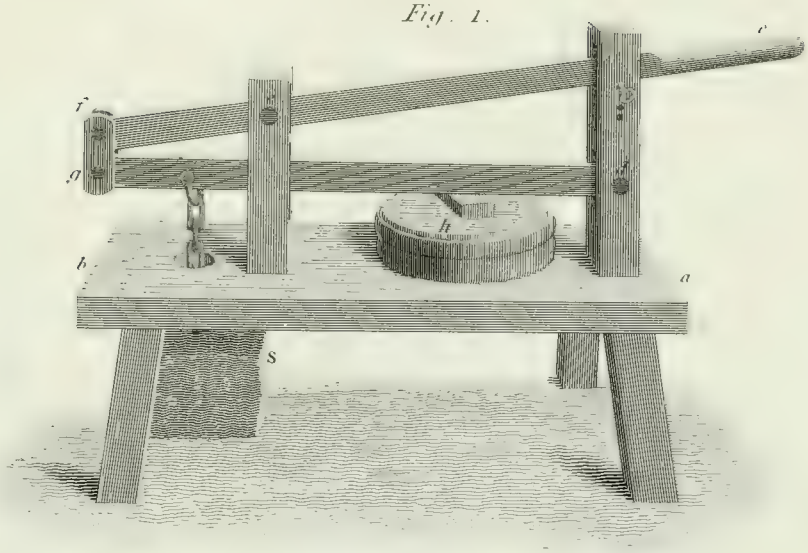
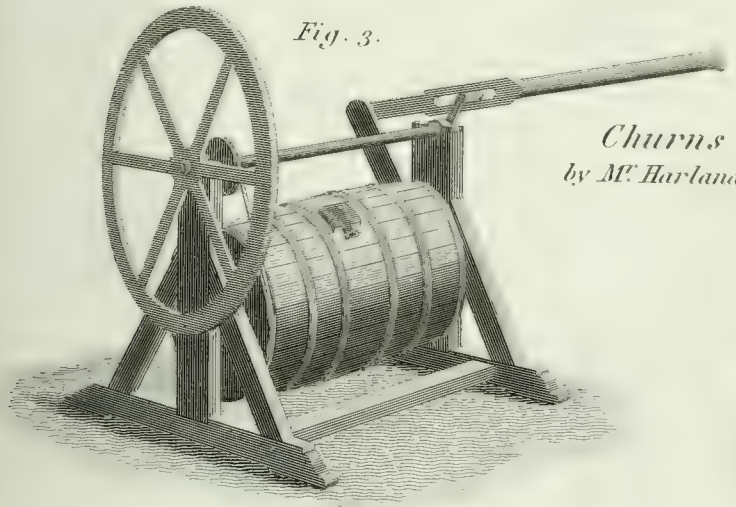
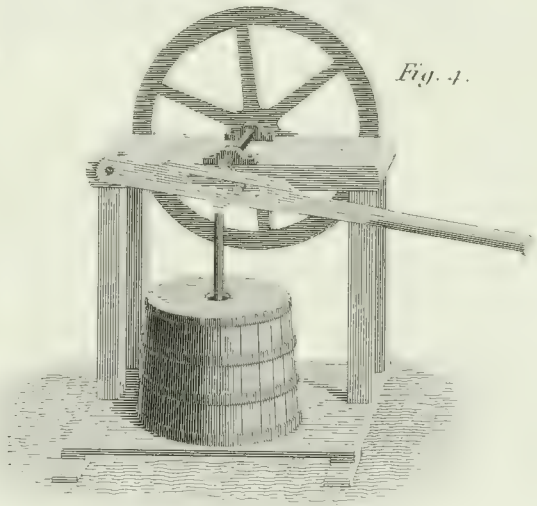


Fig. 3.



Churns
by Mr. Harland.

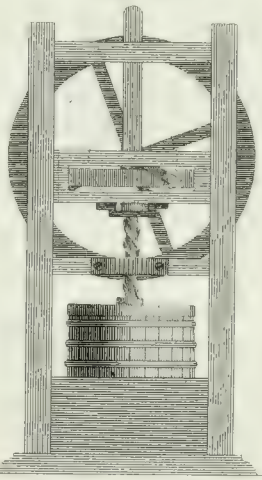
Fig. 4.



by Mr. Rowntree.

Fig 6.

Fig. 7.



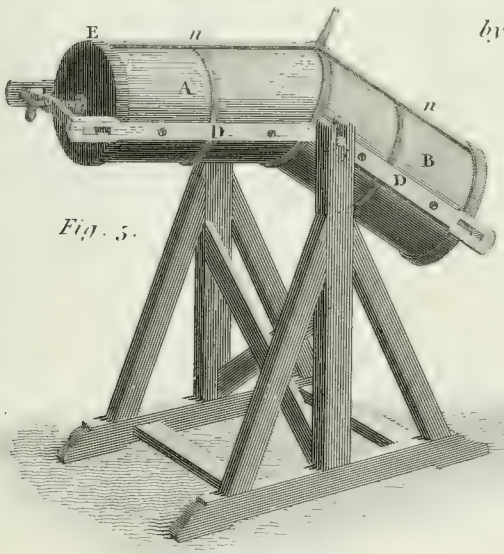


Fig. 5.

y Junr. delin.

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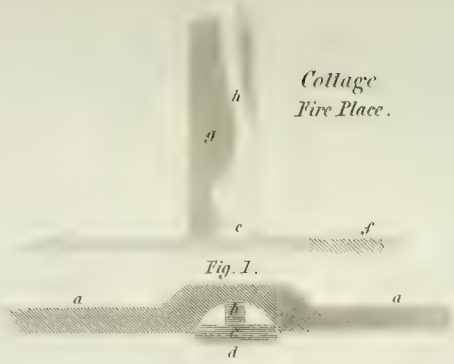
Fig. 2.



Cottage
Fire Place.

Fig. 1.

Fig. 3.

Fig. 4.

Cottage
Stair Case.

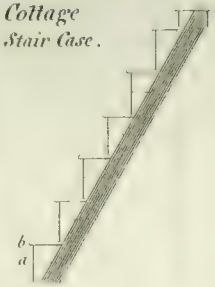
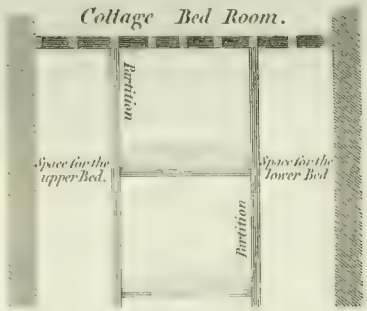


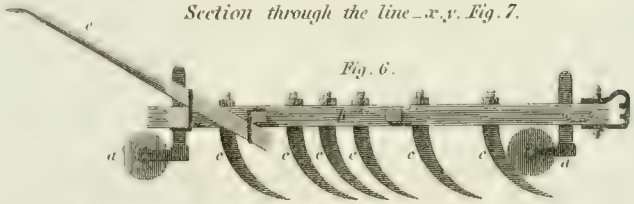
Fig. 5.

Cottage Bed Room.



Mr. AMOS's Couch Grass Drag.

Section through the line x.y. Fig. 7.



Mr. AMOS's Couch Grass Rake.

Section through the line u.z Fig. 10.

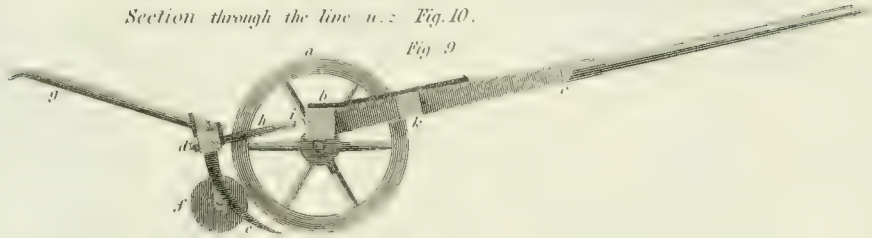
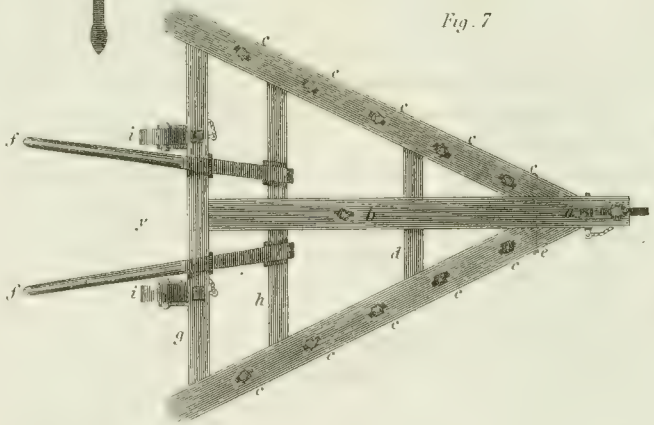


Fig. 8.

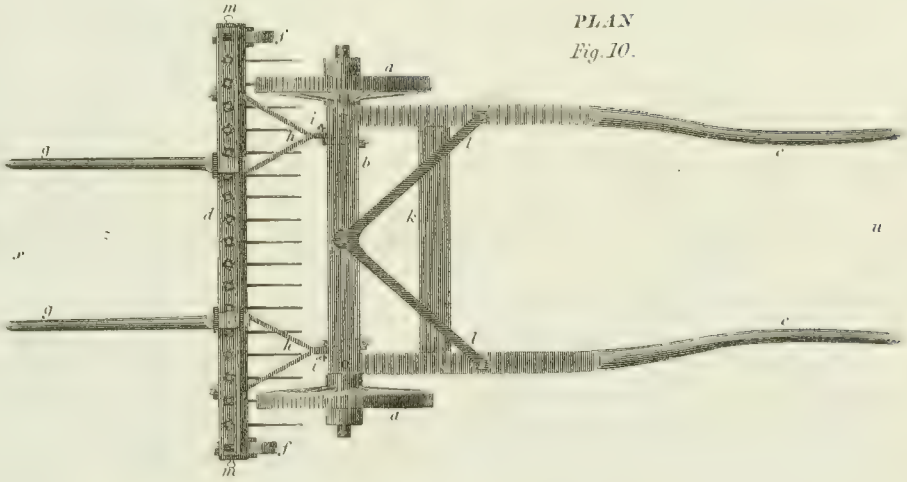
PLAN

Fig. 7



PLAN

Fig. 10.



Scale of Feet.

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

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Fig. 2.

Plan.

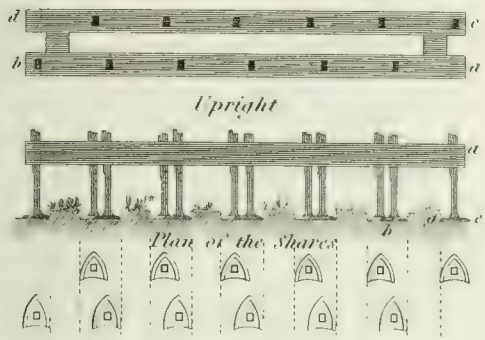


Fig. 1.

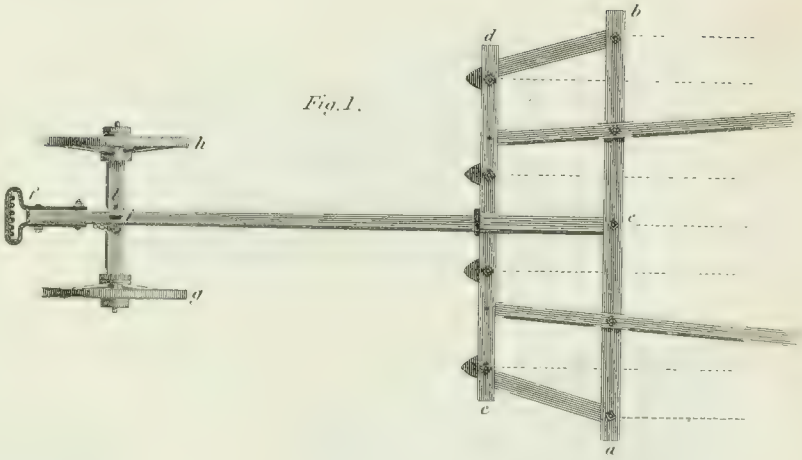


Fig. 4.

Mr. C. Western's Double Cultivator.

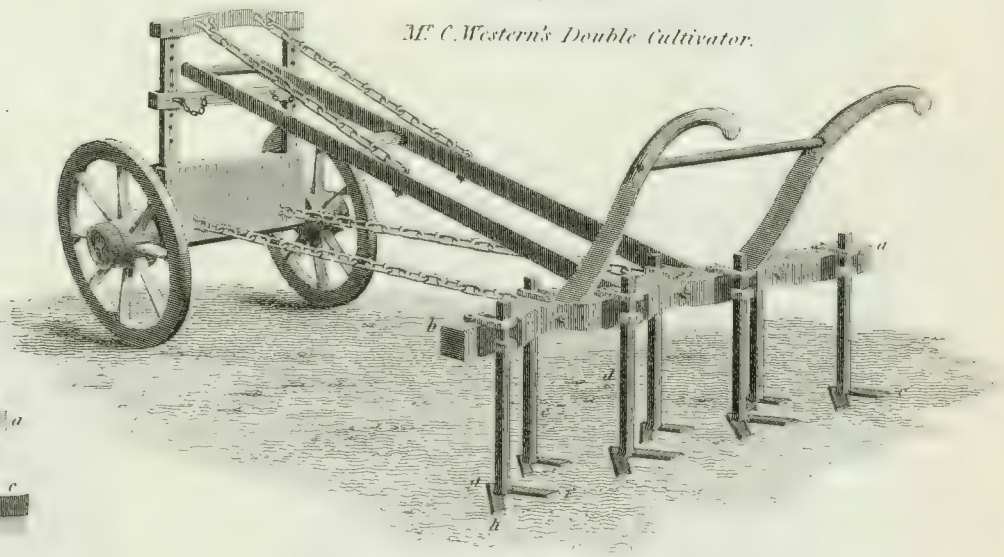


Fig. 3.

Mr. Roger's Bean Cultivator.

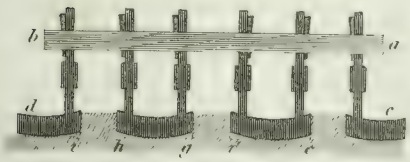
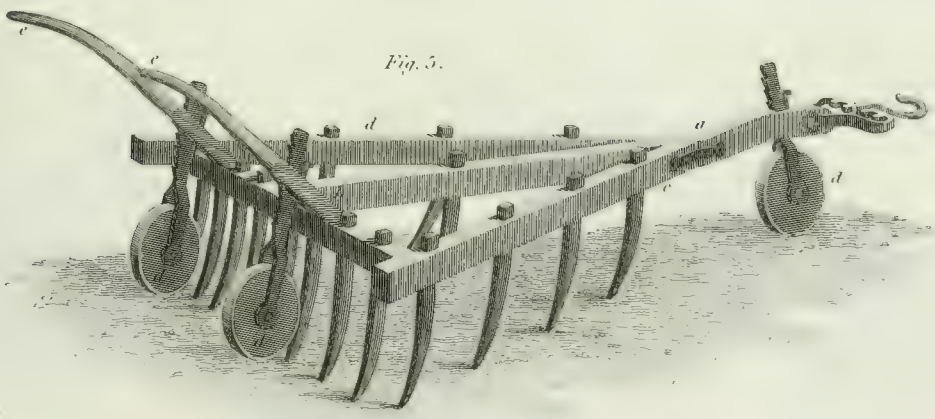


Fig. 5.



Jun. del.

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AGRICULTURE.

EMBANKMENTS.

Fig 1.

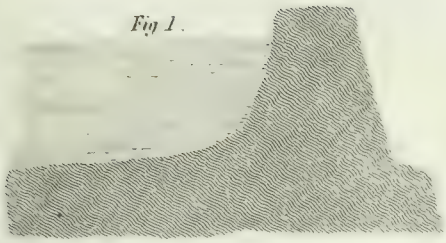


Fig 2

Fig. 3.

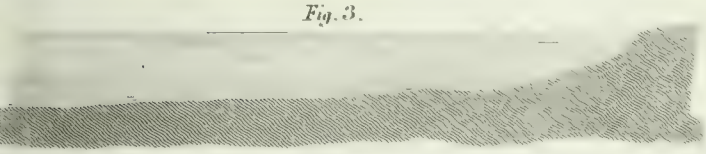


Fig 4

Fig 5.

Fig 7.

Fig. 6.

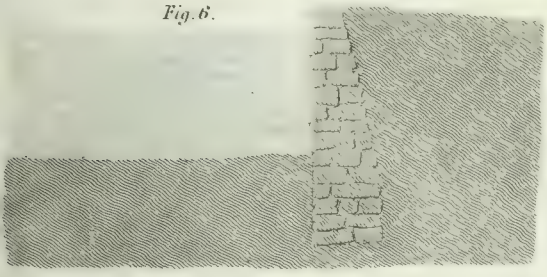
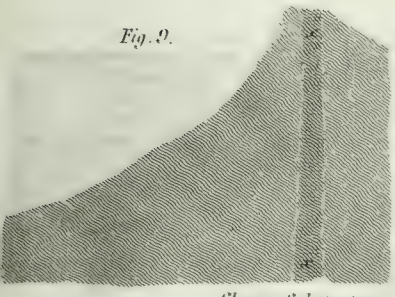


Fig 8.

Fig. 9.



Clayey Substratum.

Fig. 10.

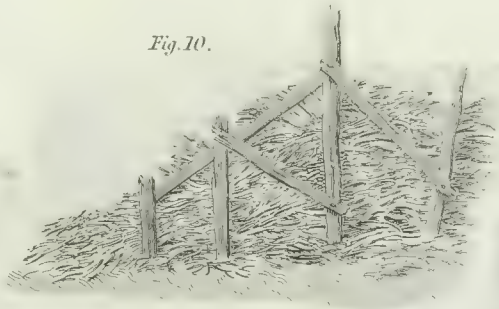
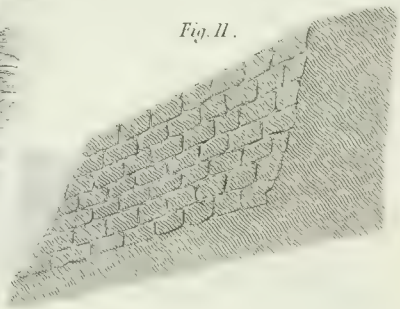


Fig. 11.



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AGRICULTURE.

EMBANKMENTS.

Fig. 1.

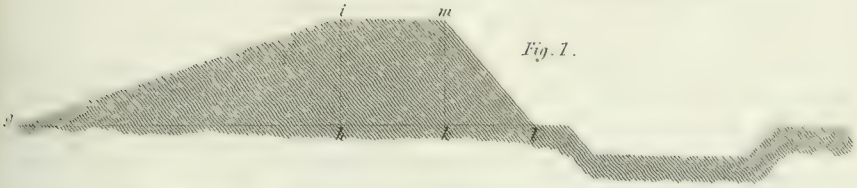

Fig. 5.

Fig. 2.

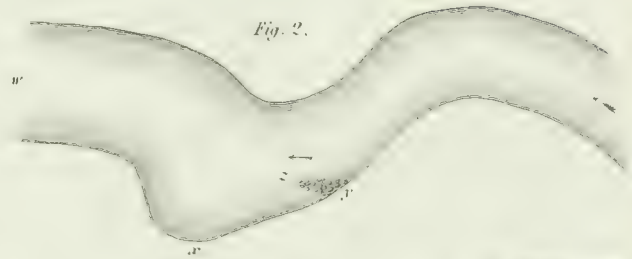

Fig. 3.

Fig. 6.

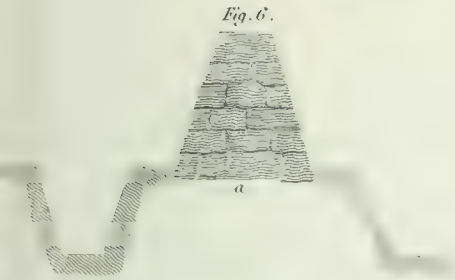

Fig. 8.

Fig. 7.

Fig. 4.

Fig. 9.

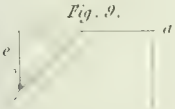

Fig. 11.

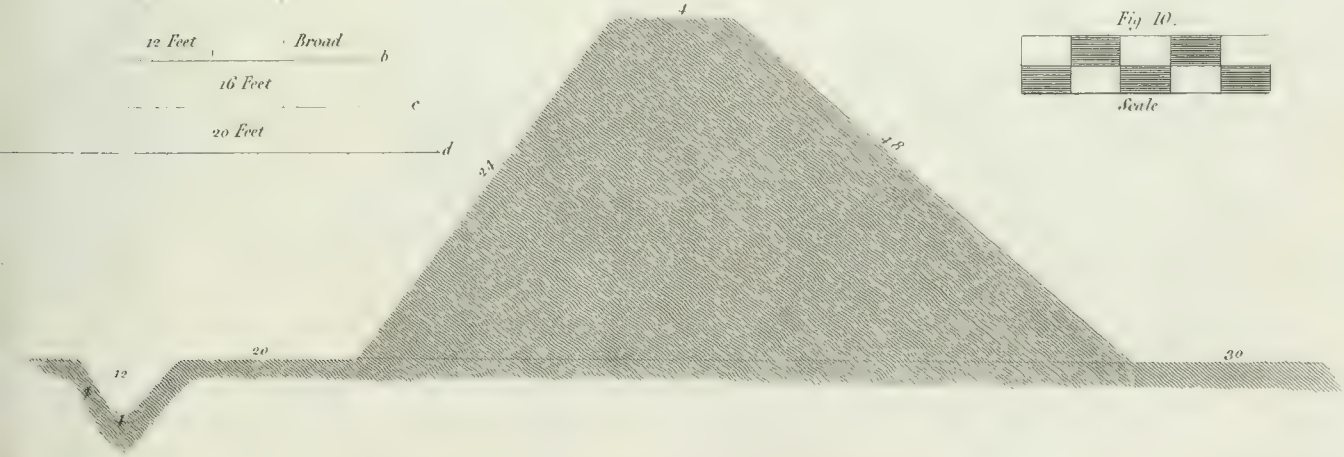

Fig. 10.

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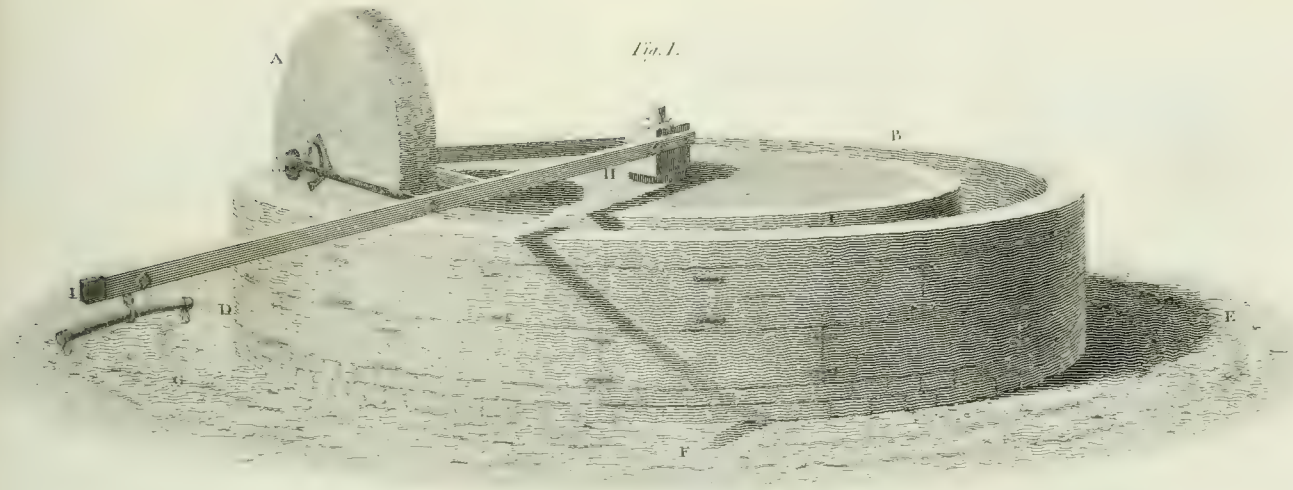
CYDER MILL and PRESS.

Fig. 1.



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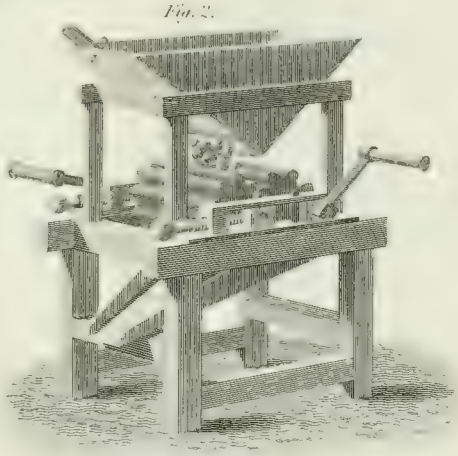


Fig. 5.

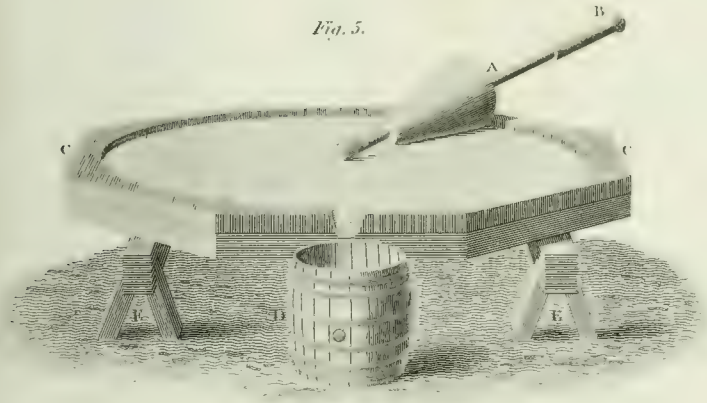
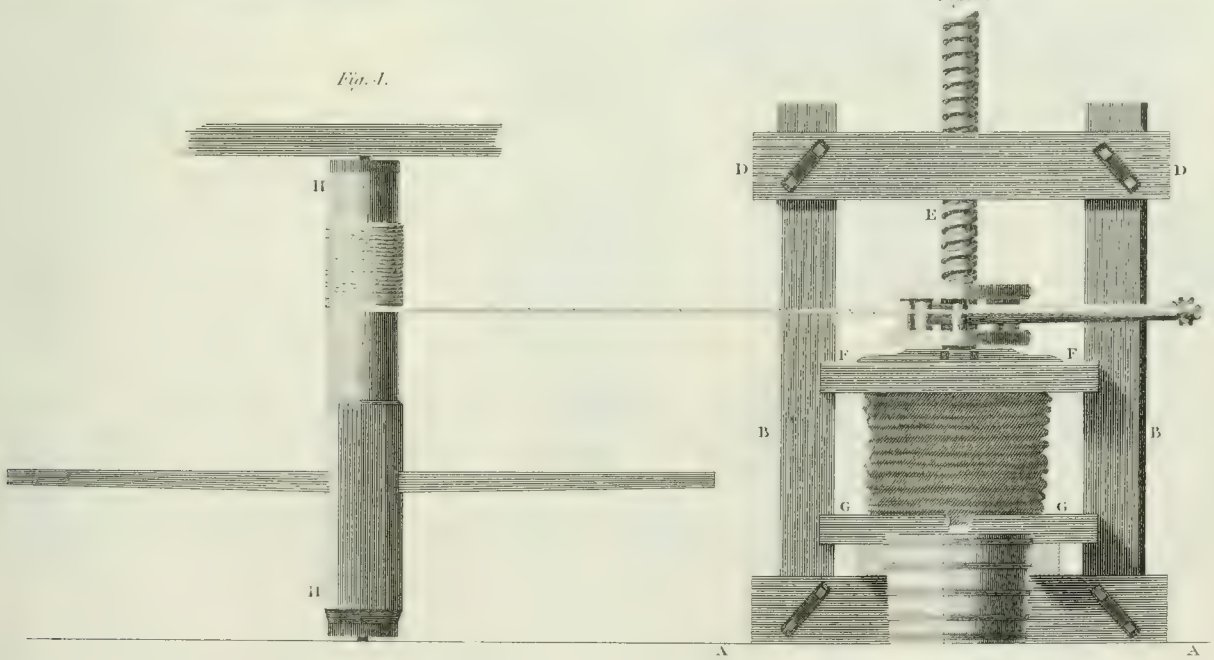


Fig. 3.

Fig. 4.



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AGRICULTURE.

DAIRY HOUSES.

Fig. 2.

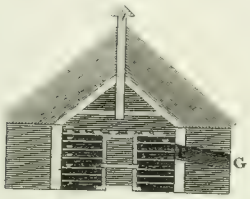


Fig. 1.

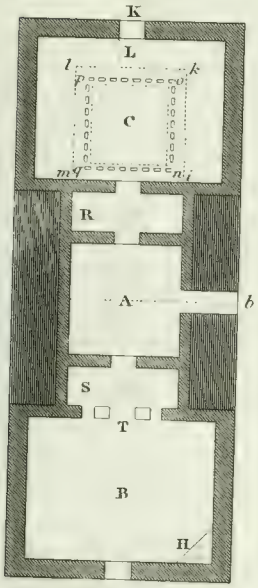


Fig. 3.

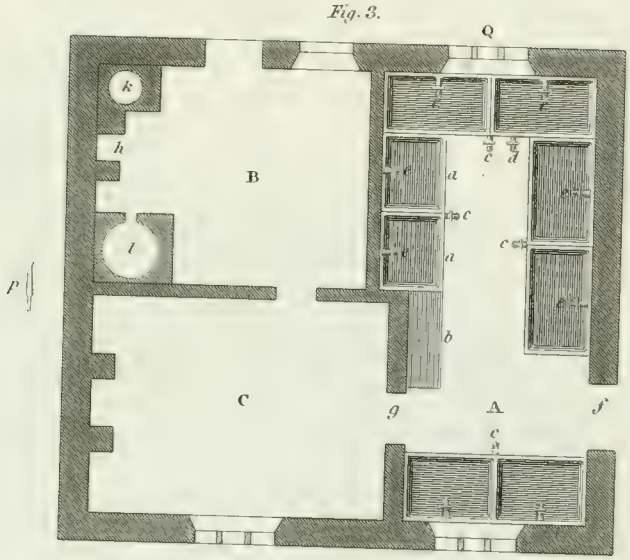
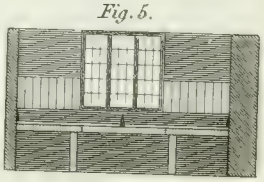


Fig. 4.

Fig. 5.



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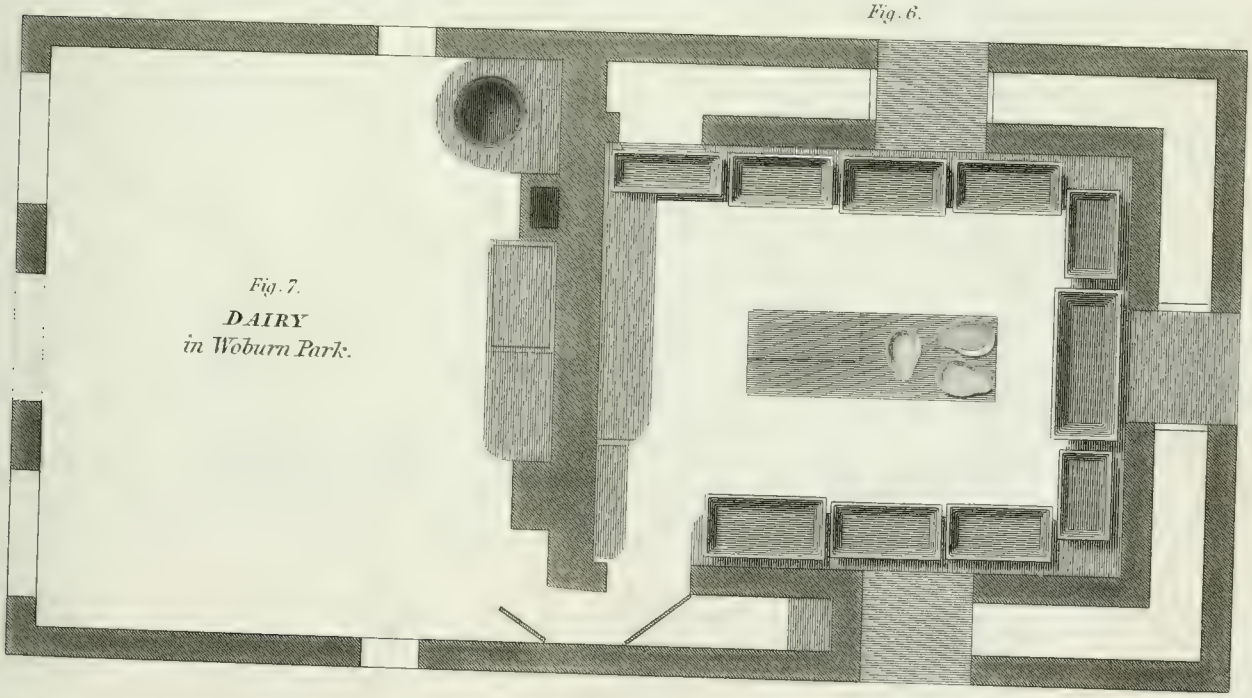

Fig. 7.
DAIRY
in Woburn Park.

Scale of Feet.

0 1 2 3 4 5 10 15 20 25 30 35 40

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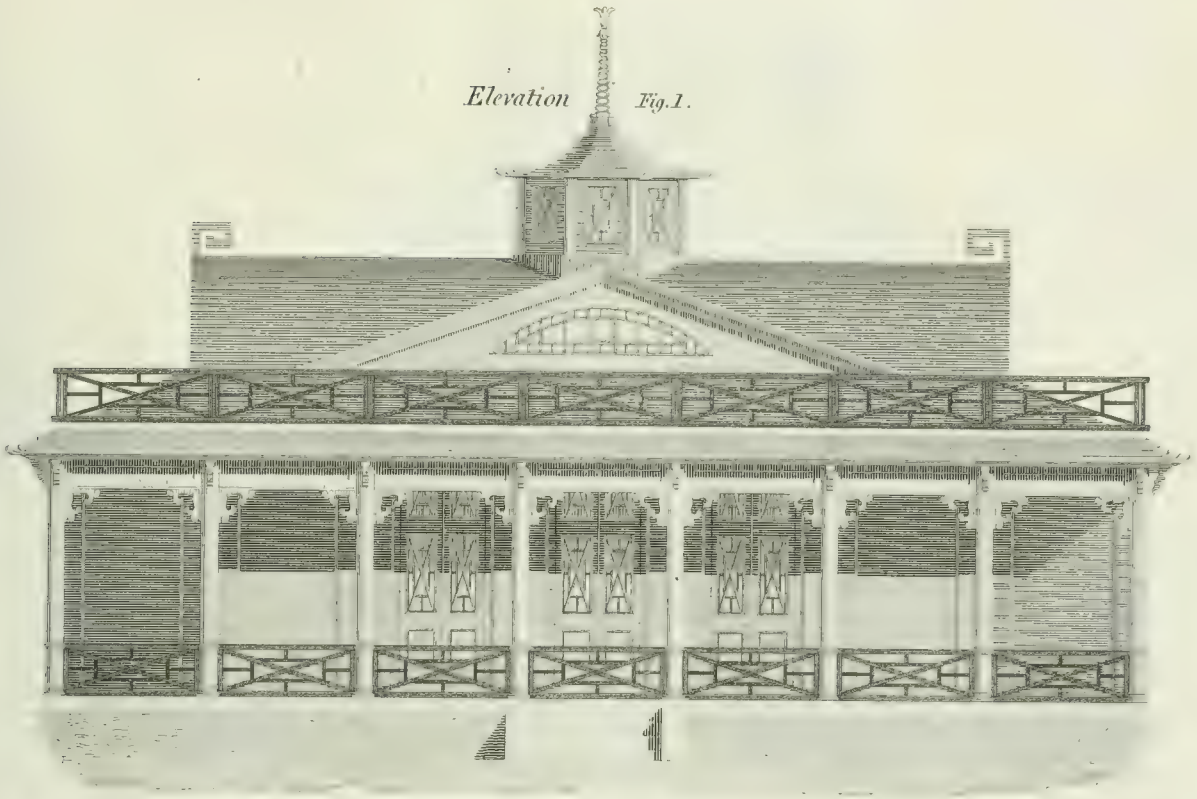
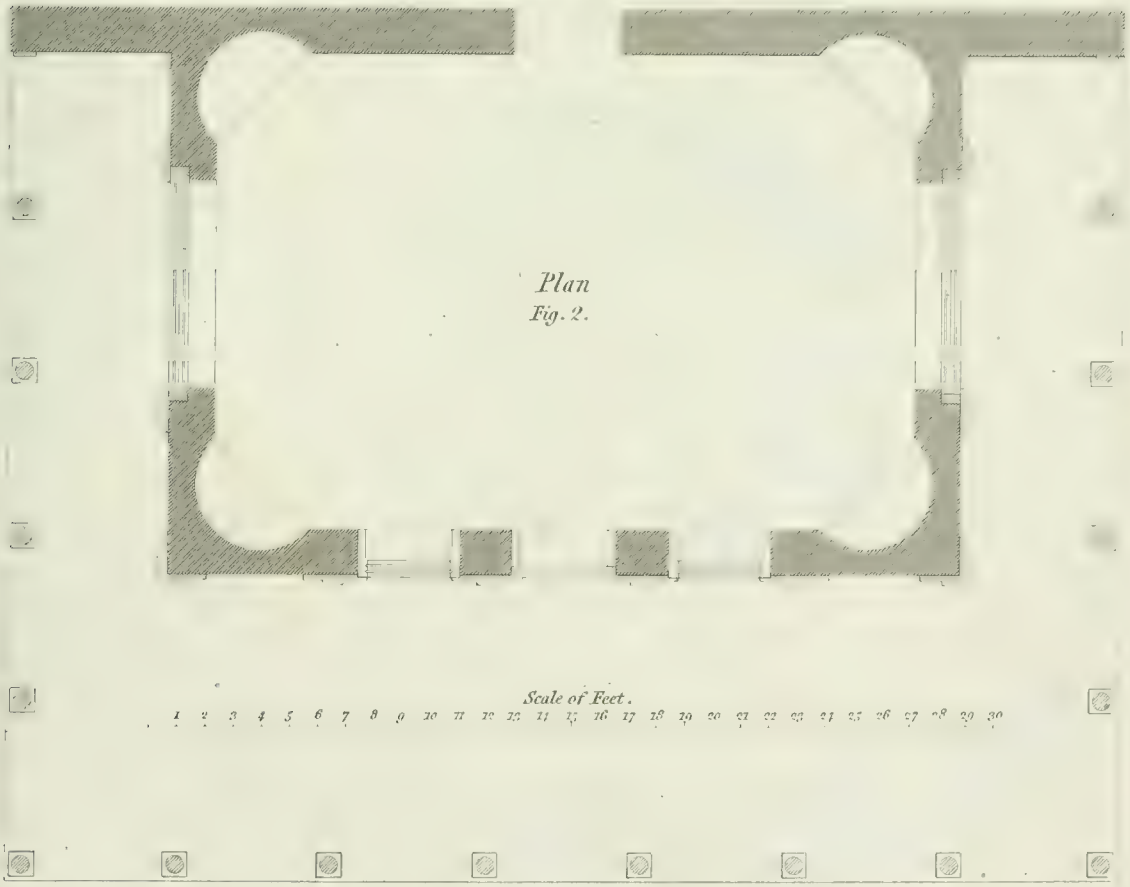
AGRICULTURE.

DAIRY AT WOOBURN ABBEY.

Elevation *Fig. 1.*





Plan
Fig. 2.

Scale of Feet.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

rey Junr. delin. Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row. Engraved by Wilson Lowry.

AGRICULTURE.

GRASS AND DAIRY FARM BUILDINGS.

Fig. 1

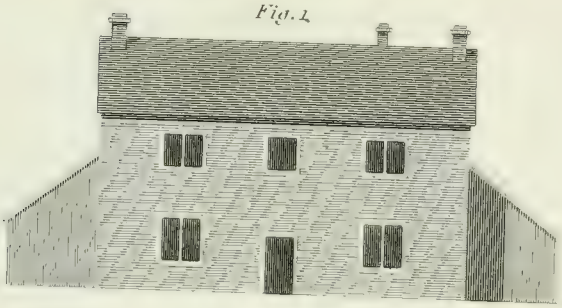


Fig. 2

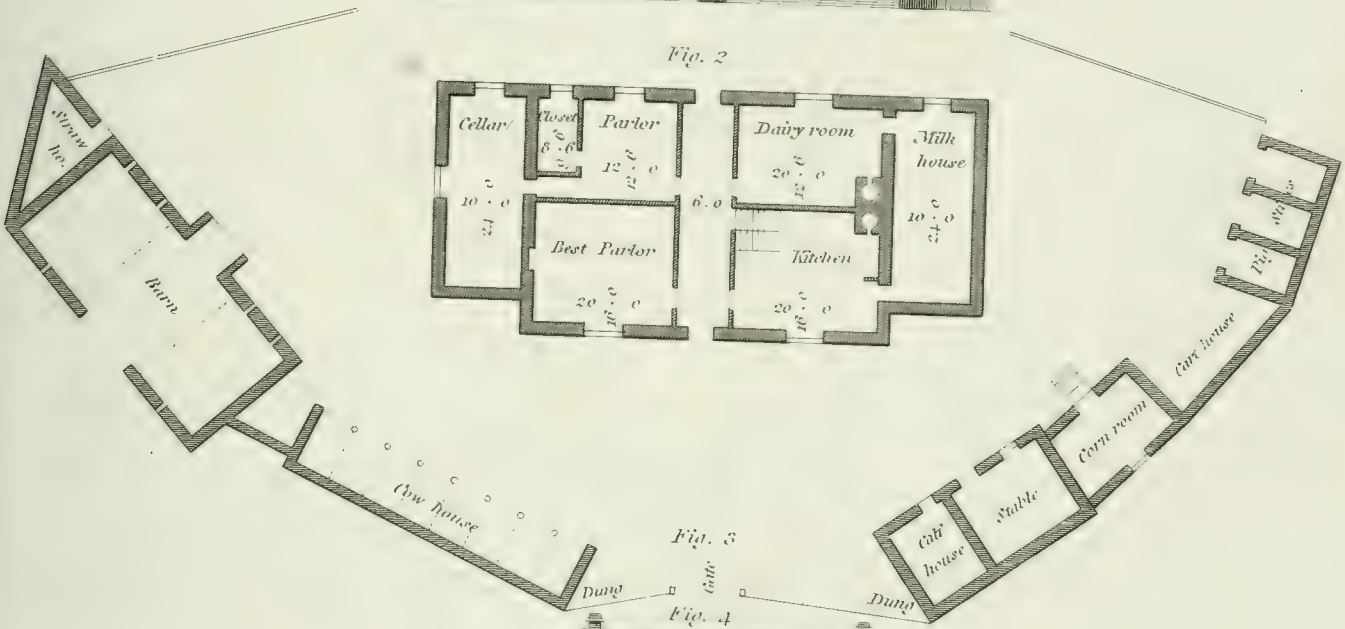
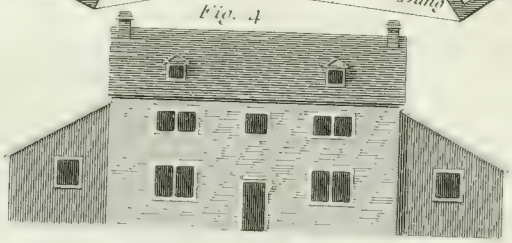


Fig. 3

Fig. 4



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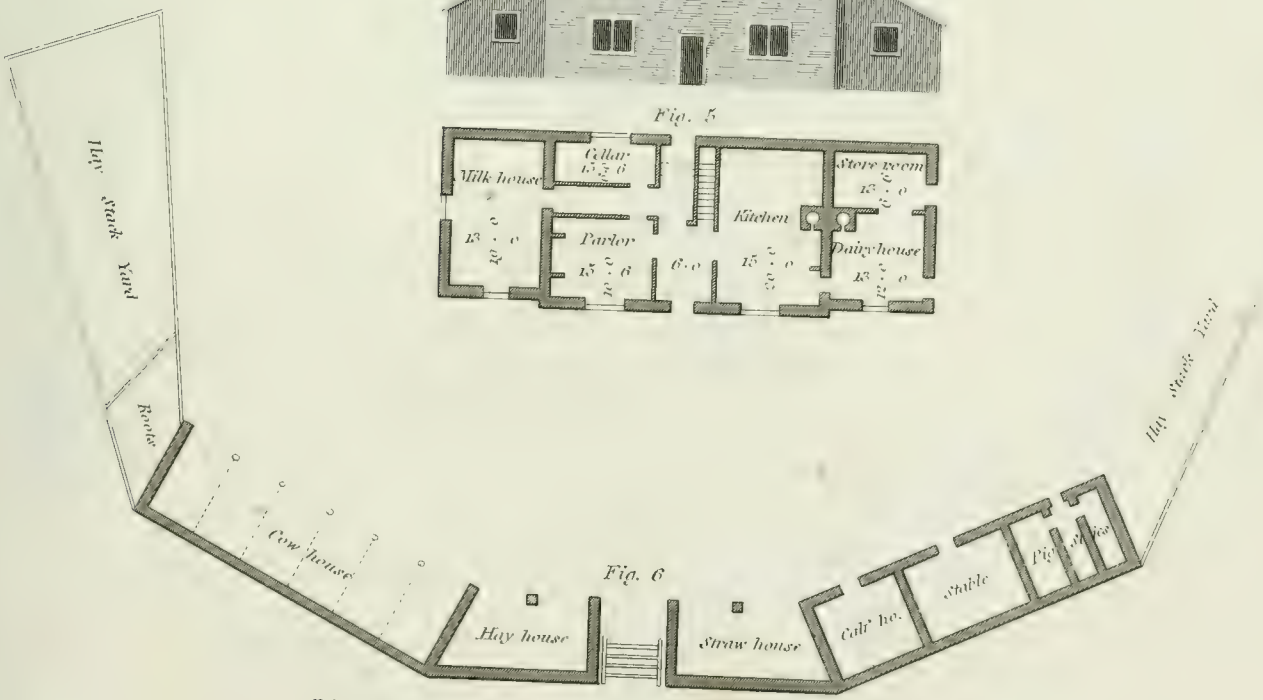

Fig. 6

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AGRICULTURE.

CORN AND MIXED FARM BUILDINGS.

Fig. 1.

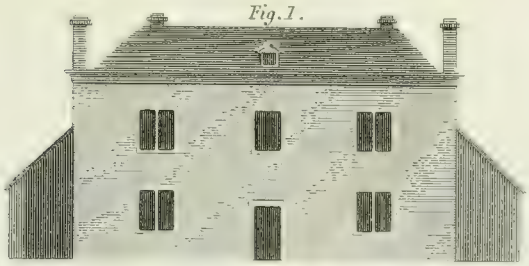

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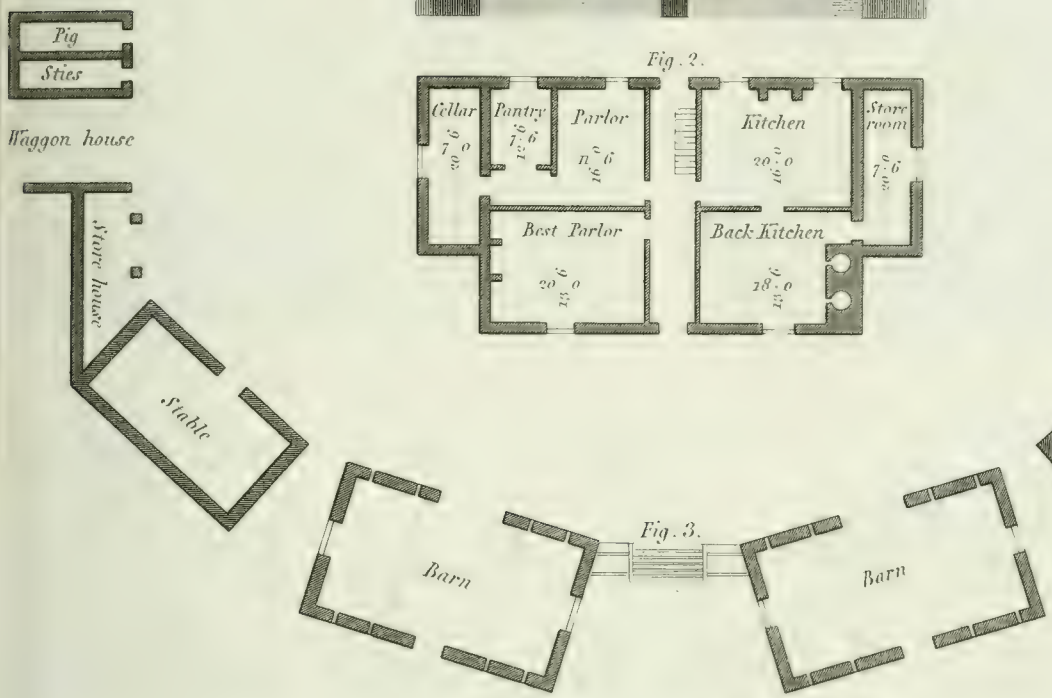
Fig. 3.



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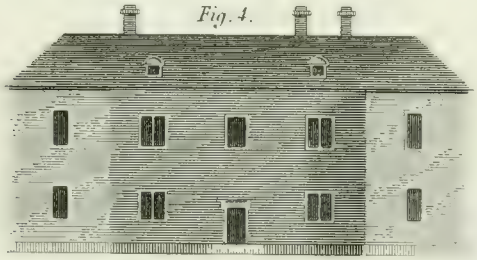

Fig. 5.

Fig. 6.

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FARM HOUSES.

Fig. 4.

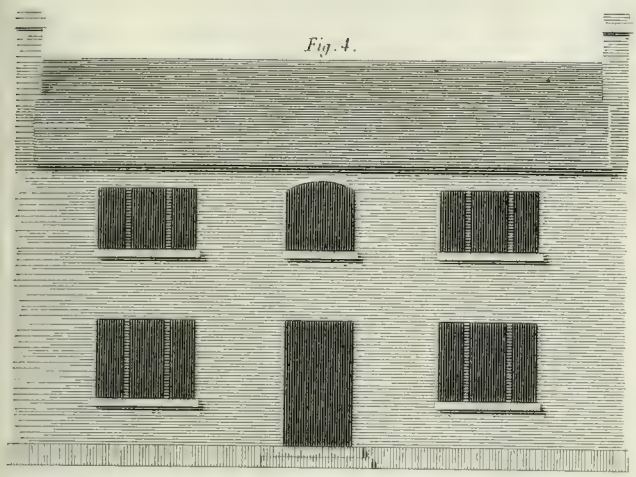
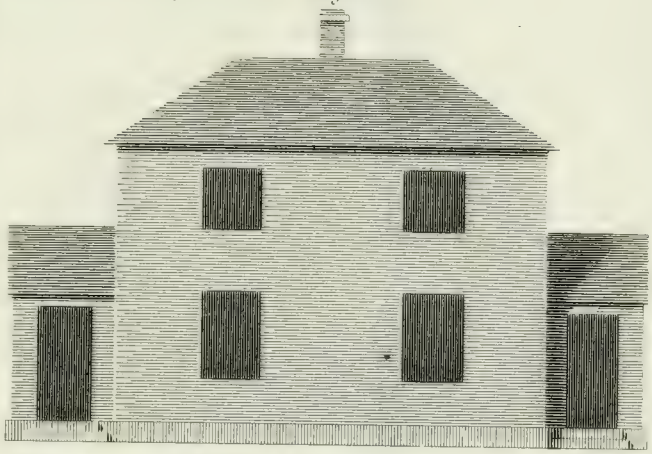


Fig. 1.



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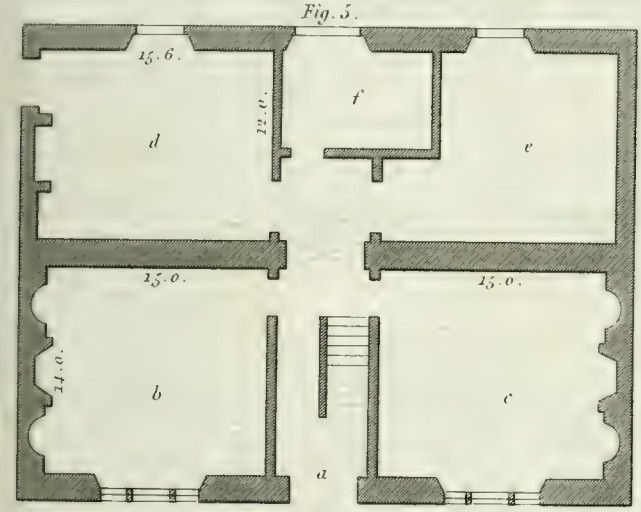

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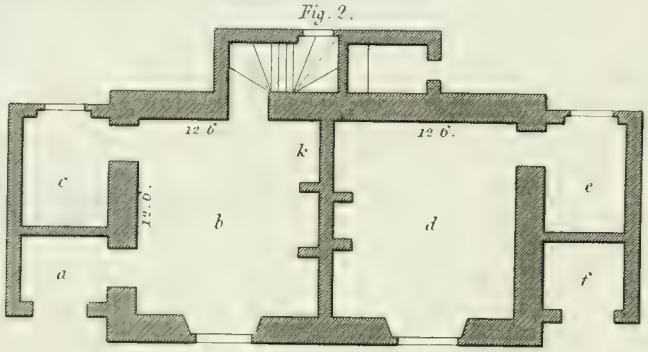

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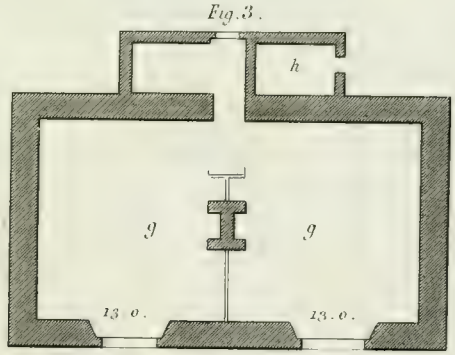

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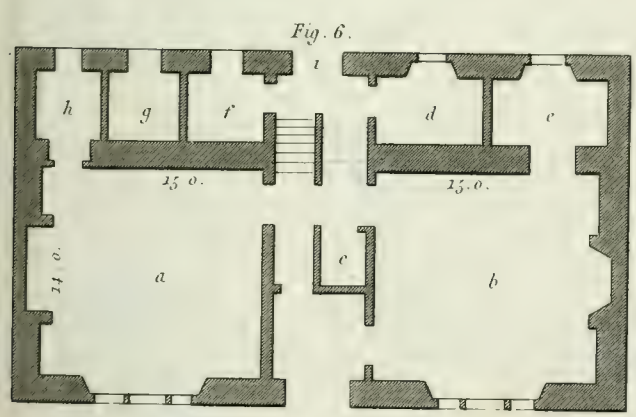

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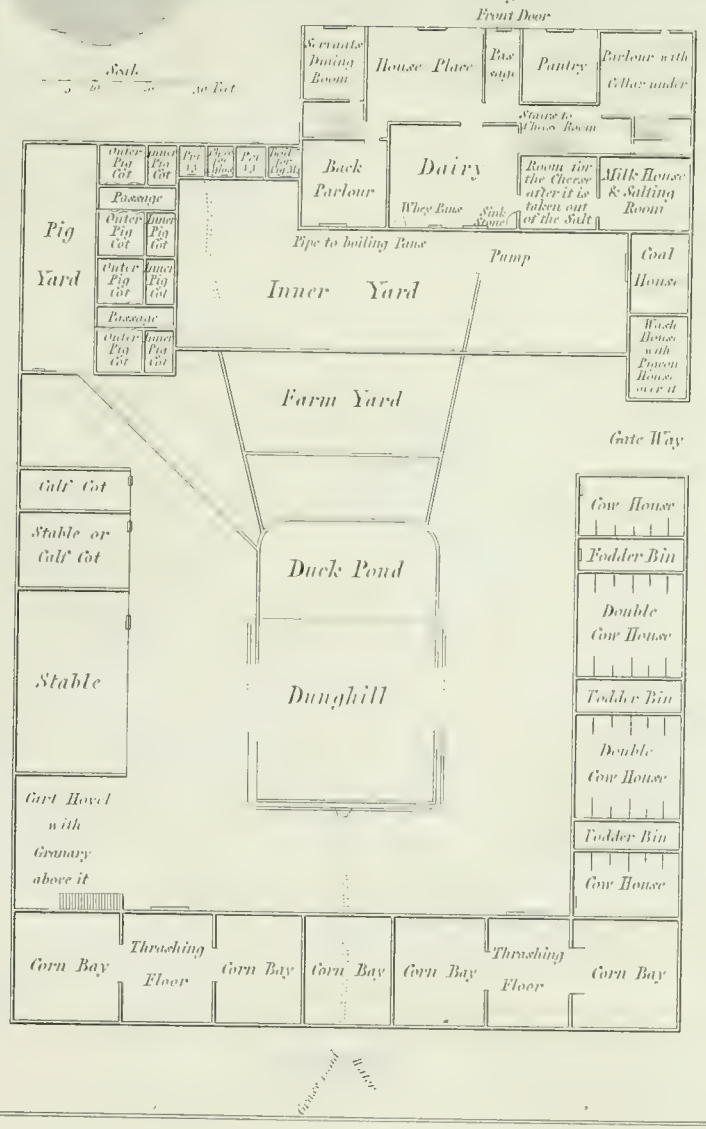
PLANS OF SQUARE FARM YARDS.

Pond with small stream constantly flowing through it

Fig. 1.



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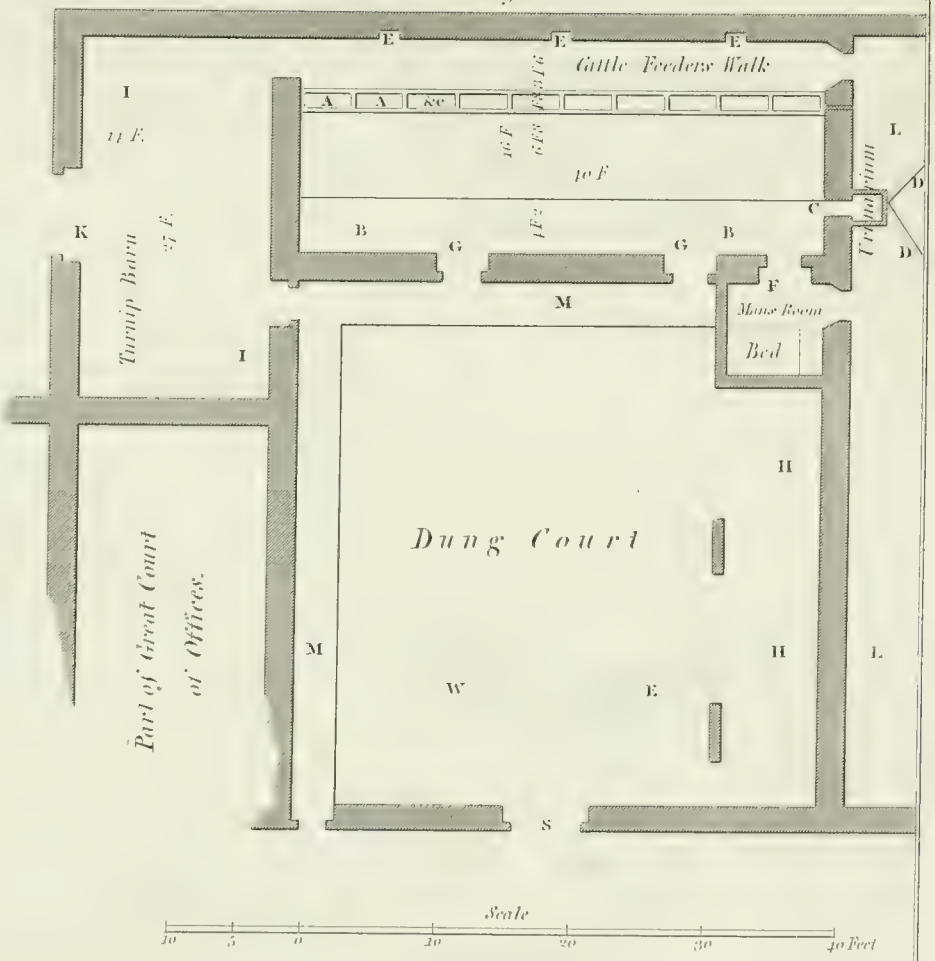

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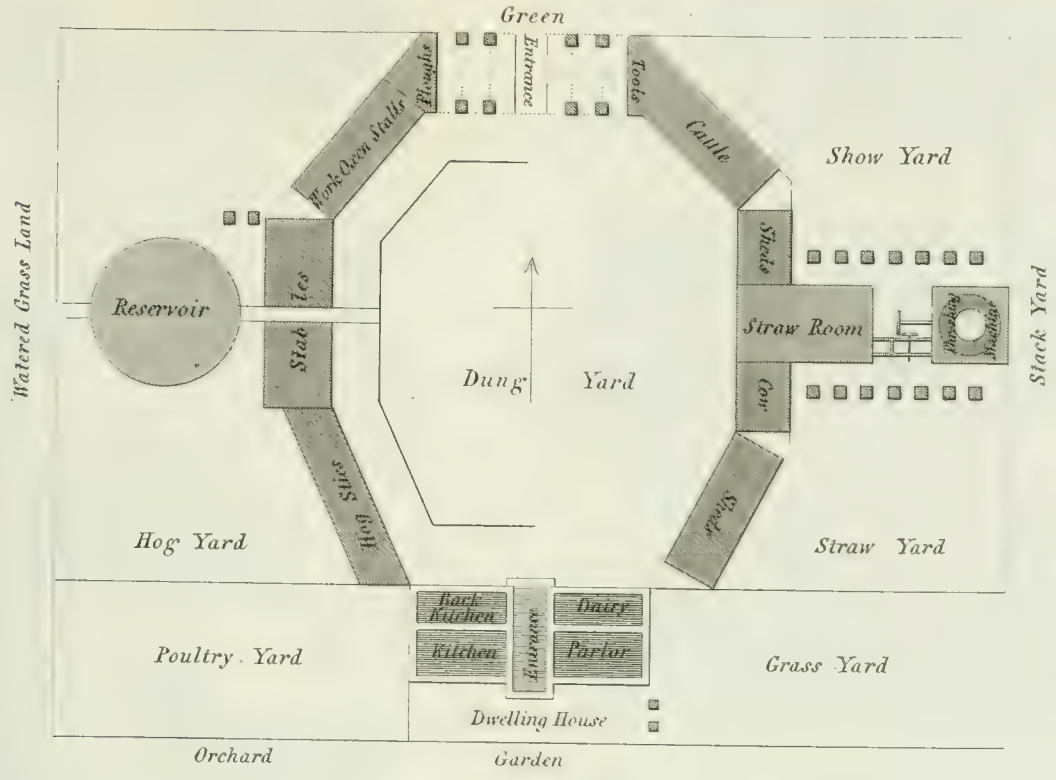
AGRICULTURE.

PLANS OF ANGULAR AND CIRCULAR FARM YARDS.



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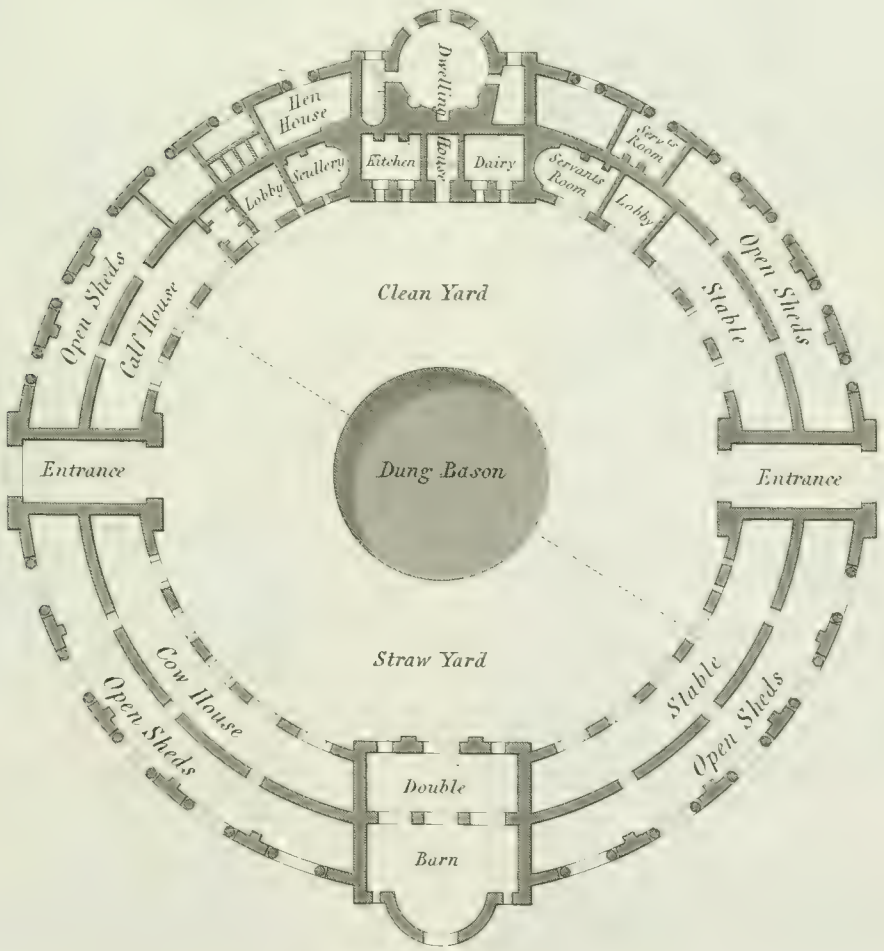

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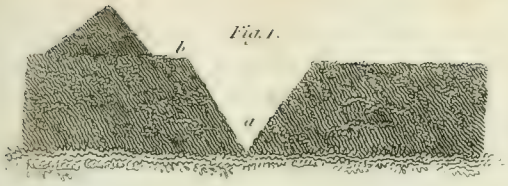

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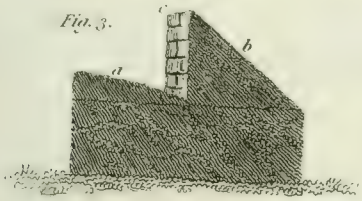

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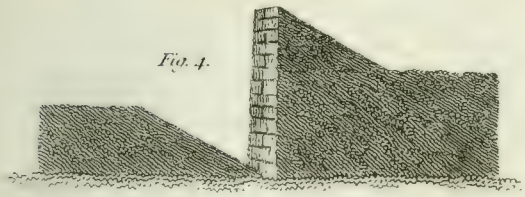

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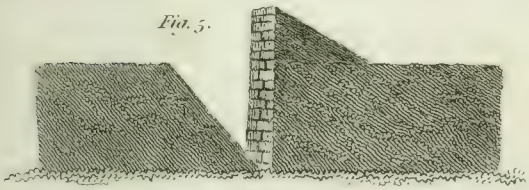

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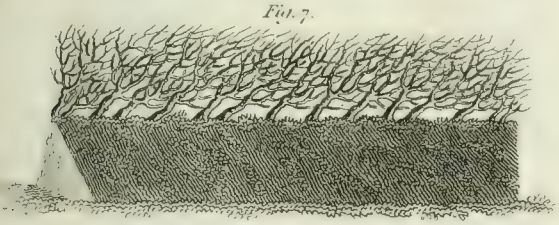

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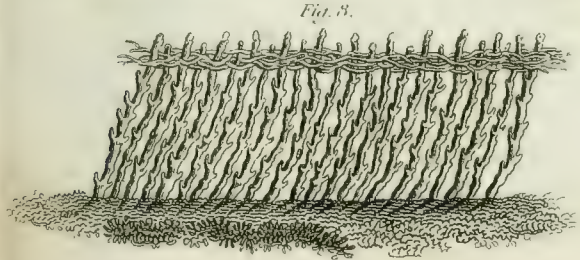

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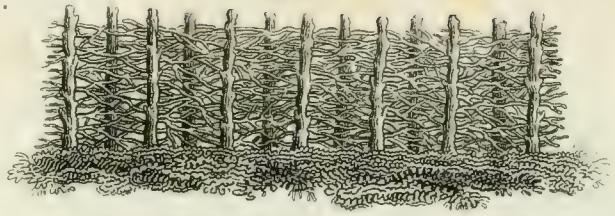

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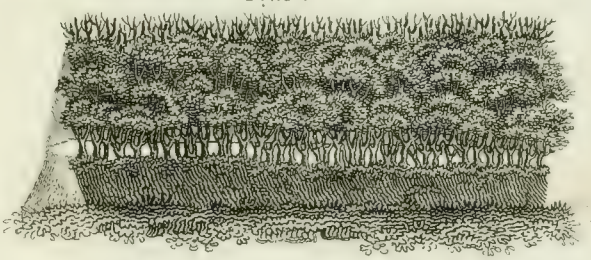


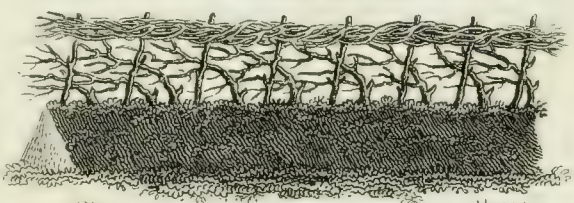
Fig. 11.

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 15.



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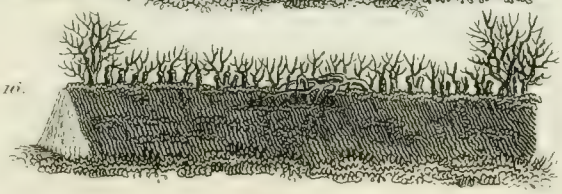

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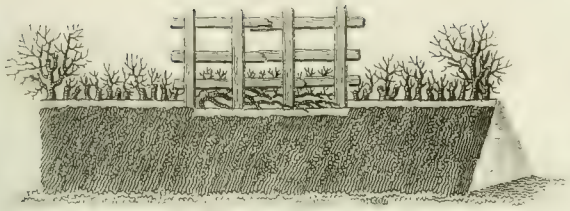

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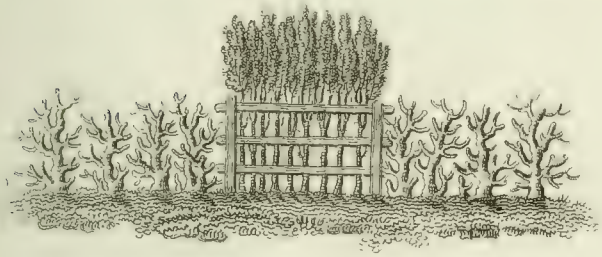

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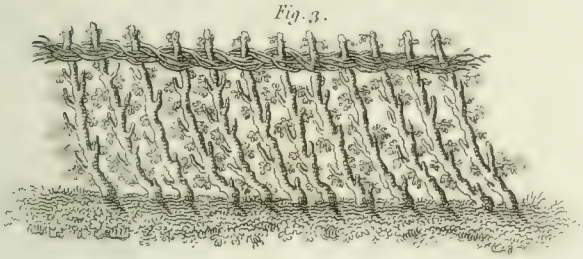

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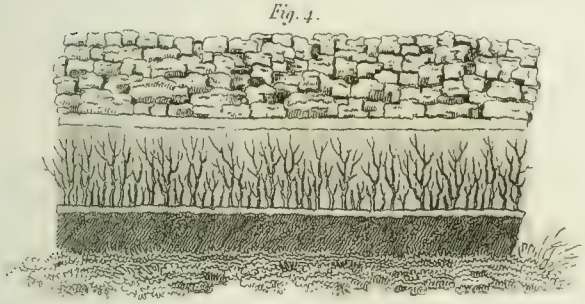

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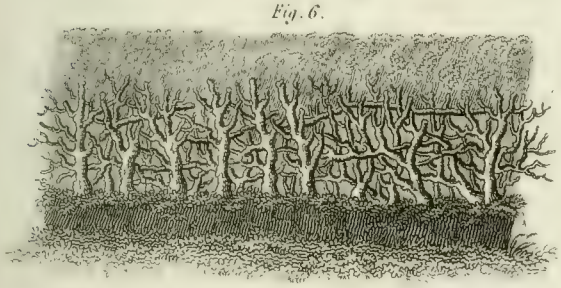

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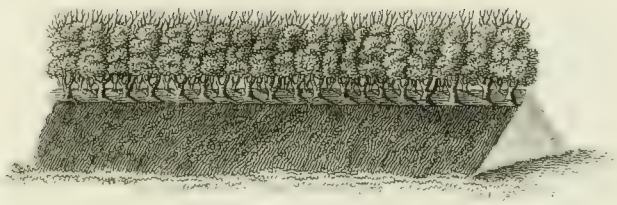

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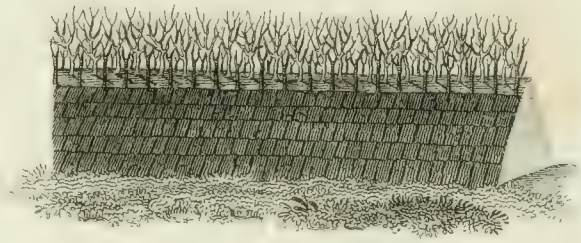

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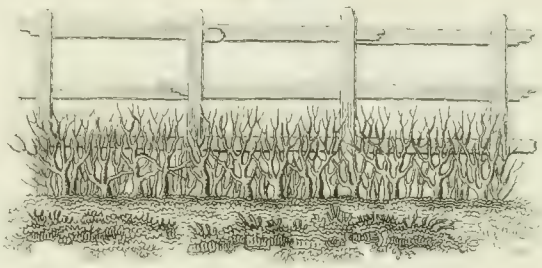

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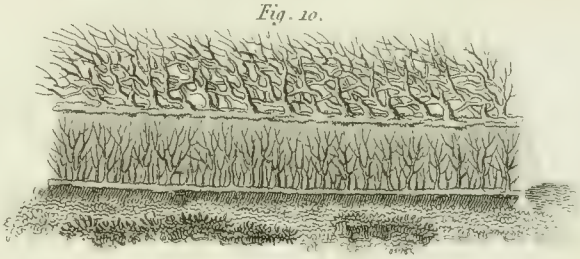

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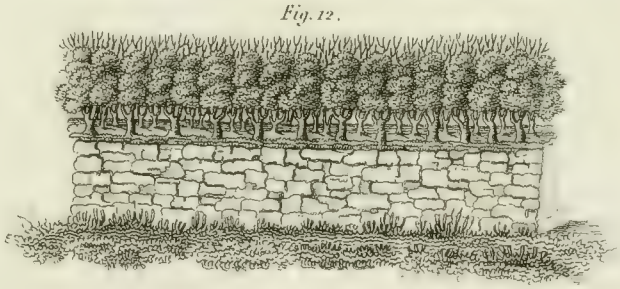

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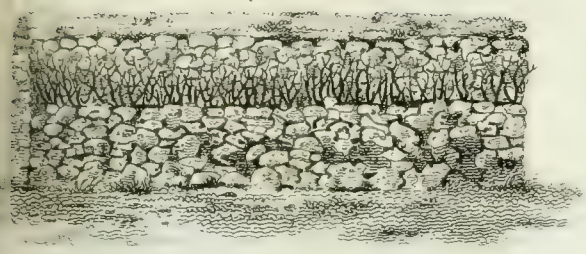

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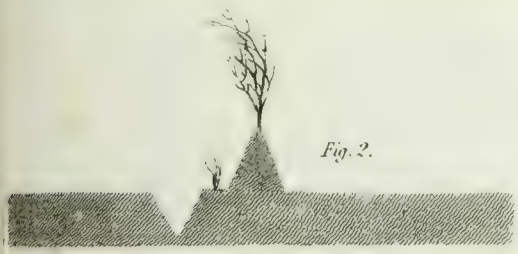

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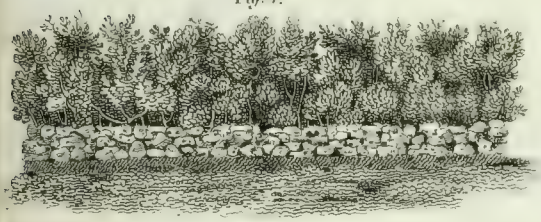

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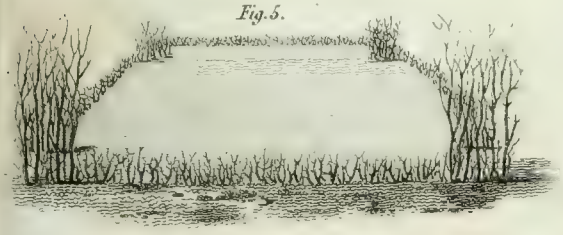

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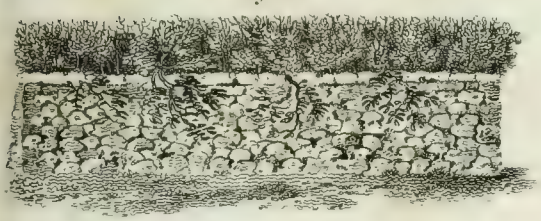

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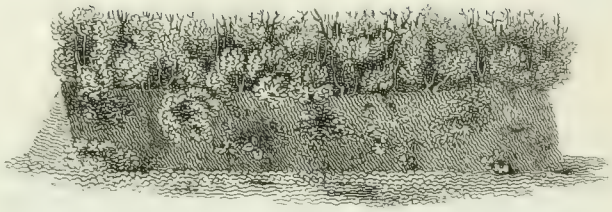

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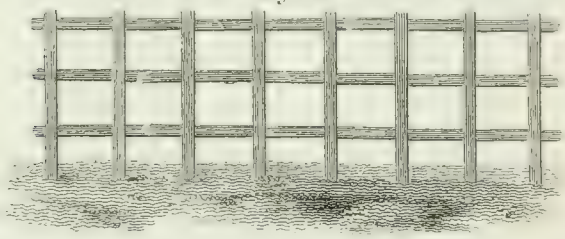

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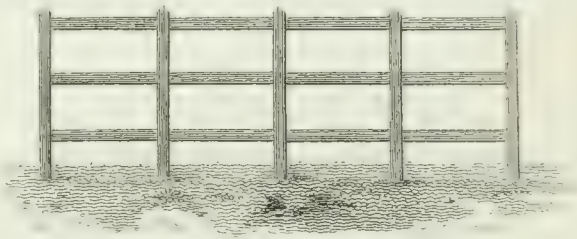

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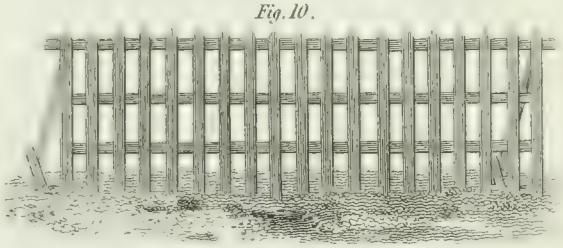

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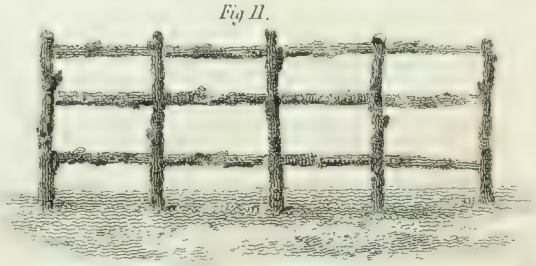

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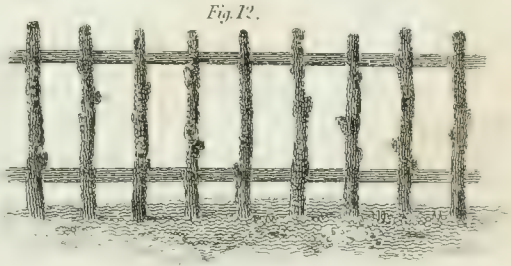

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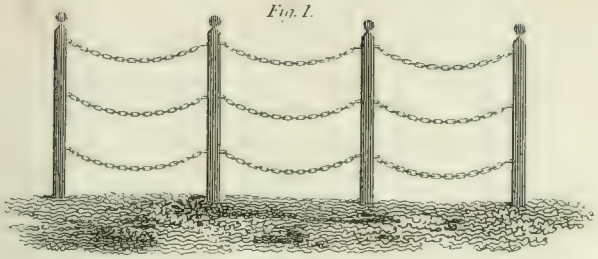

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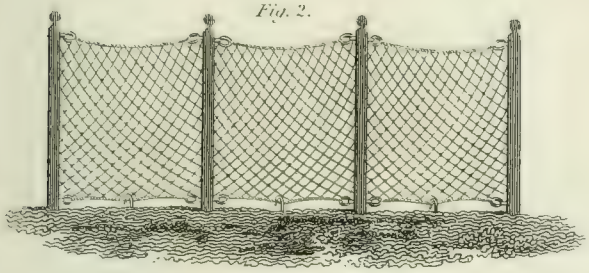

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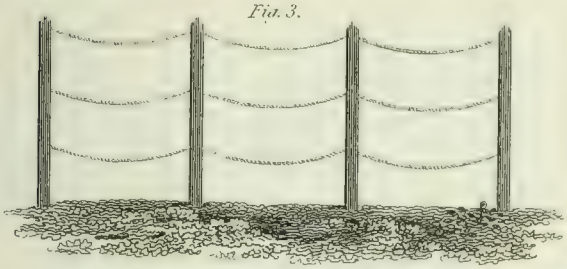

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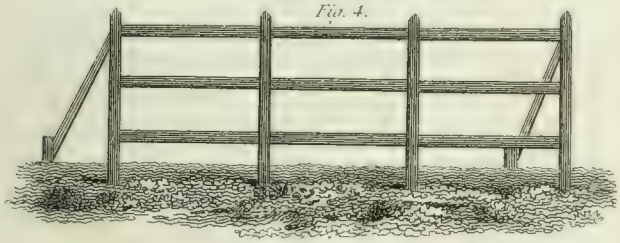

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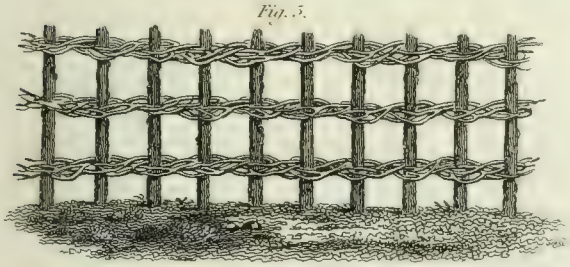

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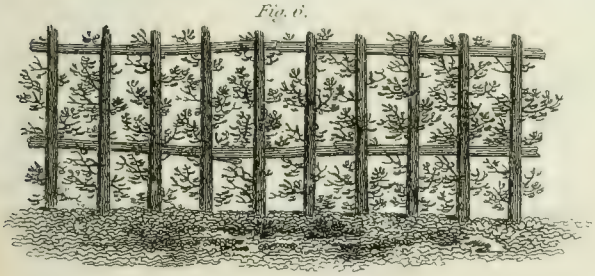

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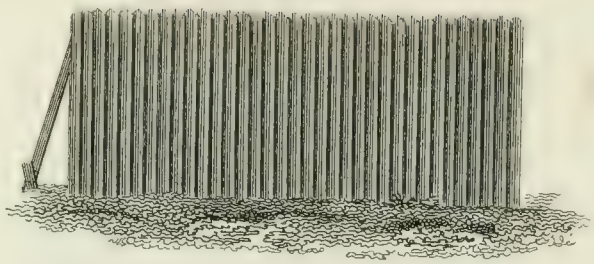

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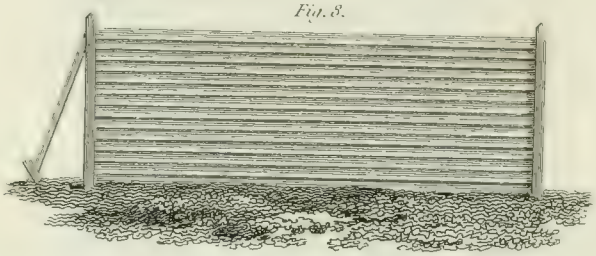

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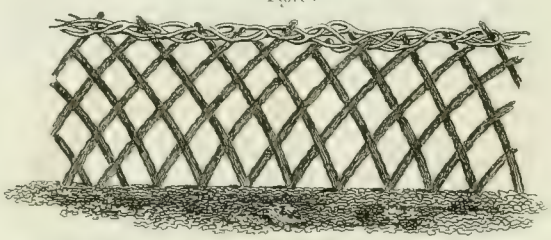

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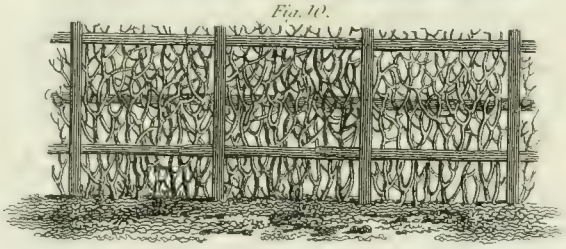

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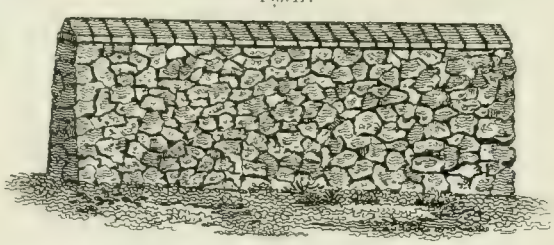

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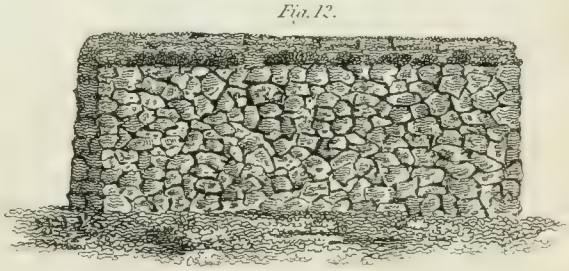

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FENCES.

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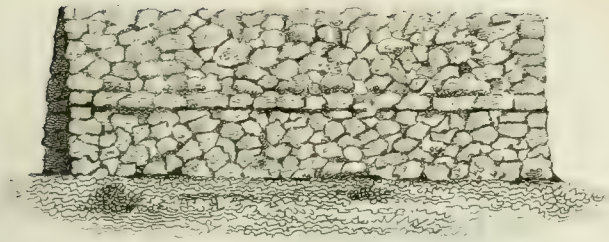

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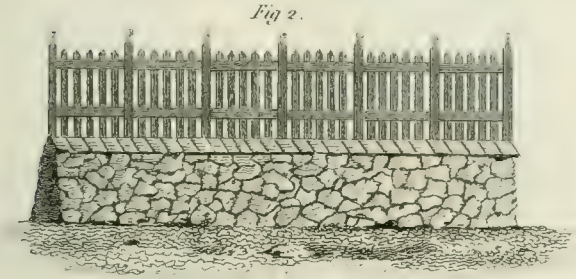

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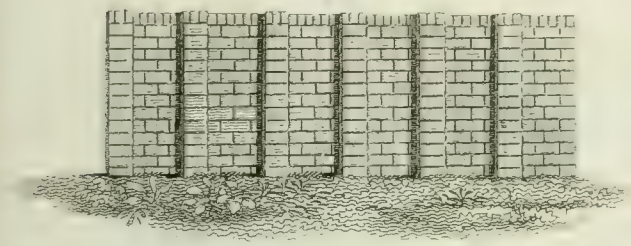

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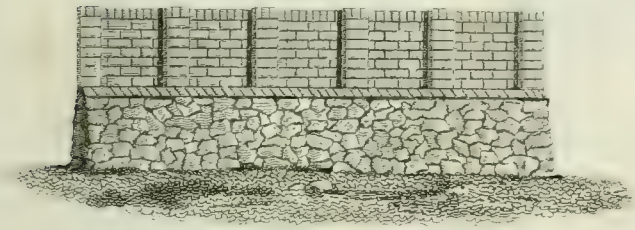

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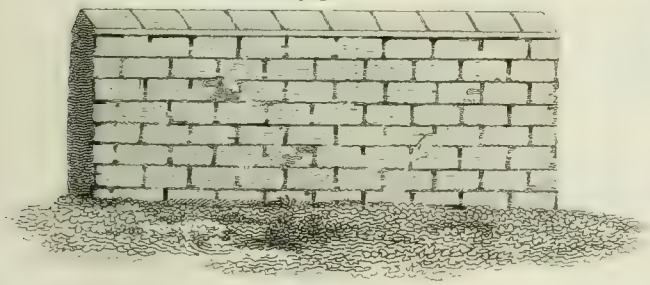

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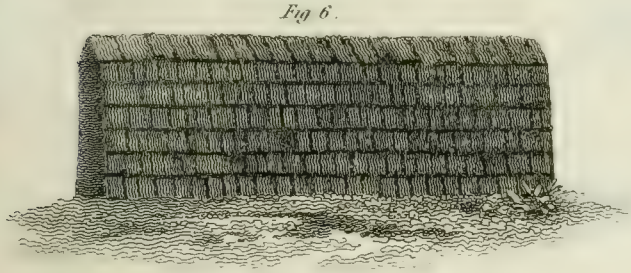

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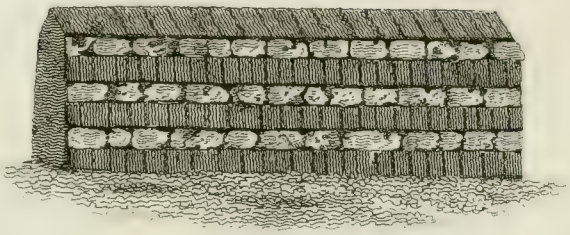

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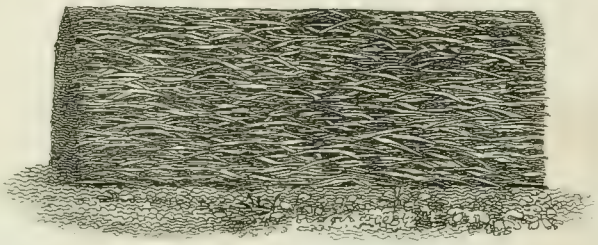

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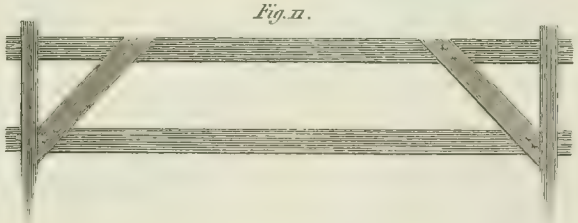
Fig. 10.

Fig. 11.



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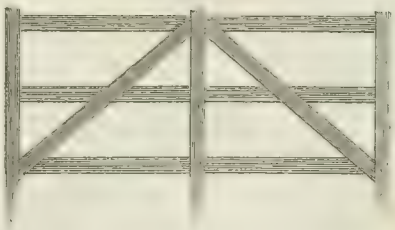

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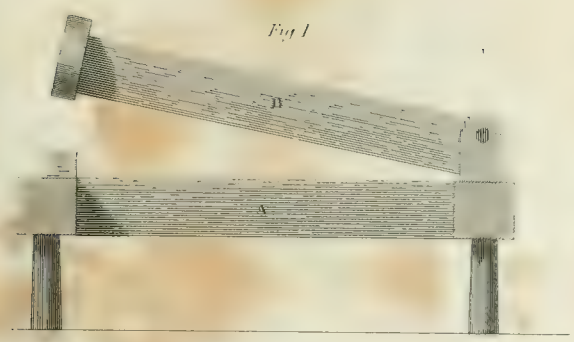

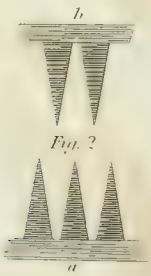

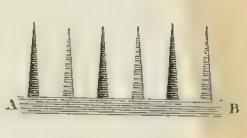

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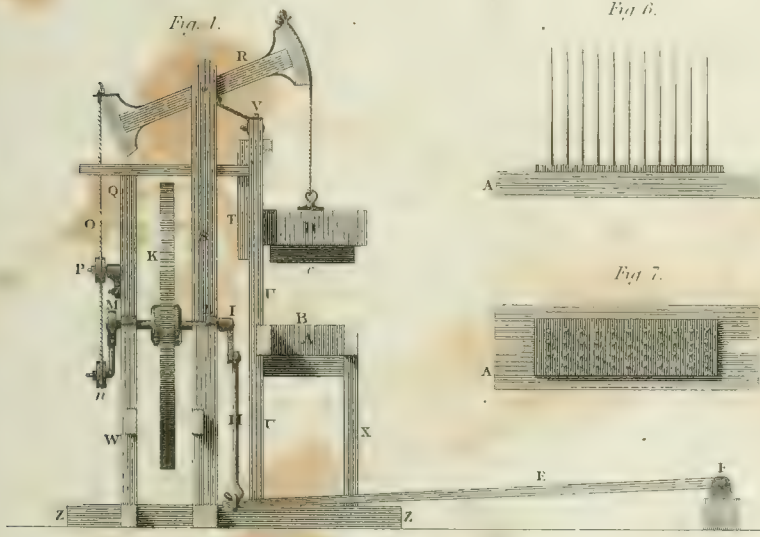
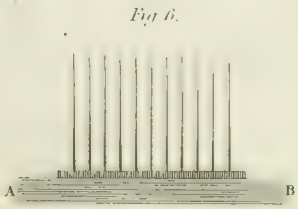
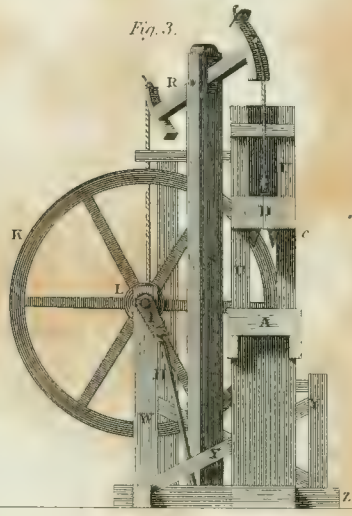
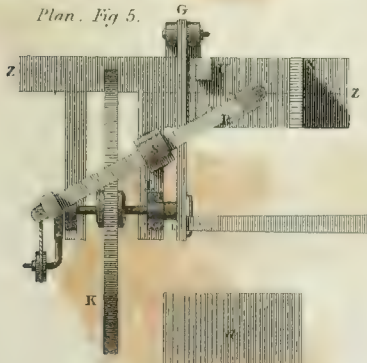
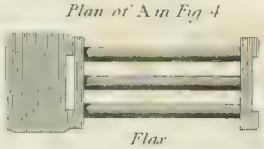
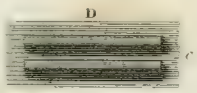


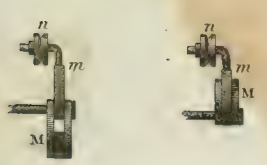


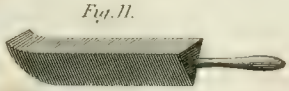


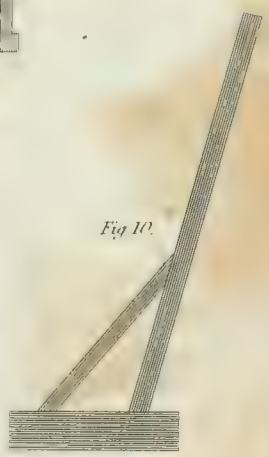


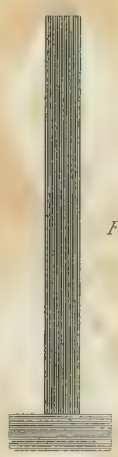










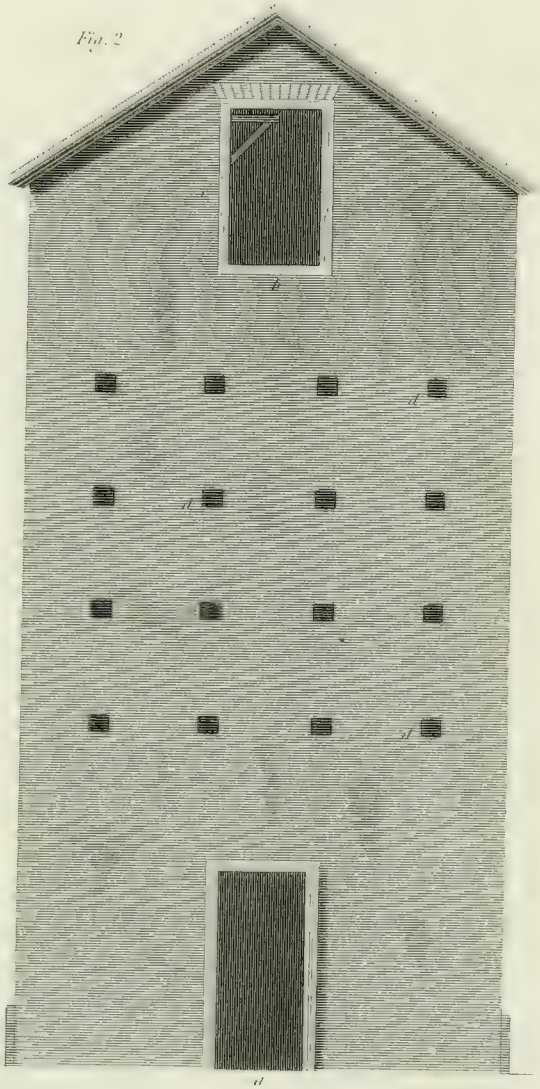


J.Farey Jun.del. Published as the Act directs,1813. by Longman,Hurst,Rees,Orme & Brown,Paternoster Row London. Engraved by W.Lowry.

GRANARY.

Fig. 1.

Fig. 2



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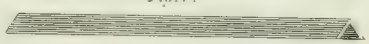

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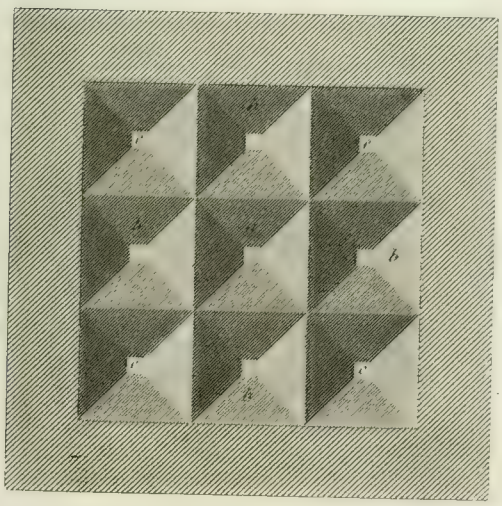
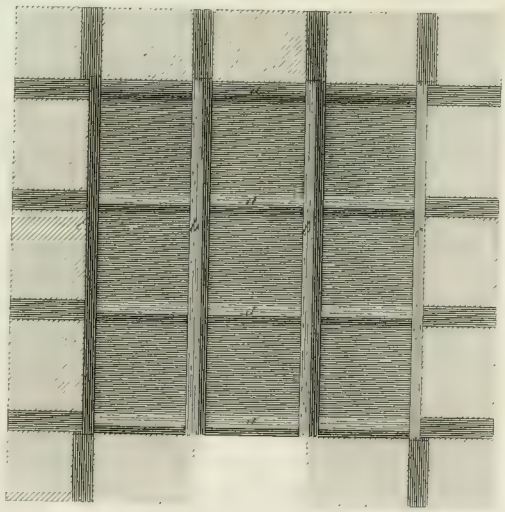


Fig. 3 Plan.



For Fig. 3, referred to in the Article **GRAZING**,
See Plate **GRAZING** *and* **HARROWS**.

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Salmon's Drill MACHINE.

V

Fig. 2

Section.

Front Elevation.

Fig. 1.

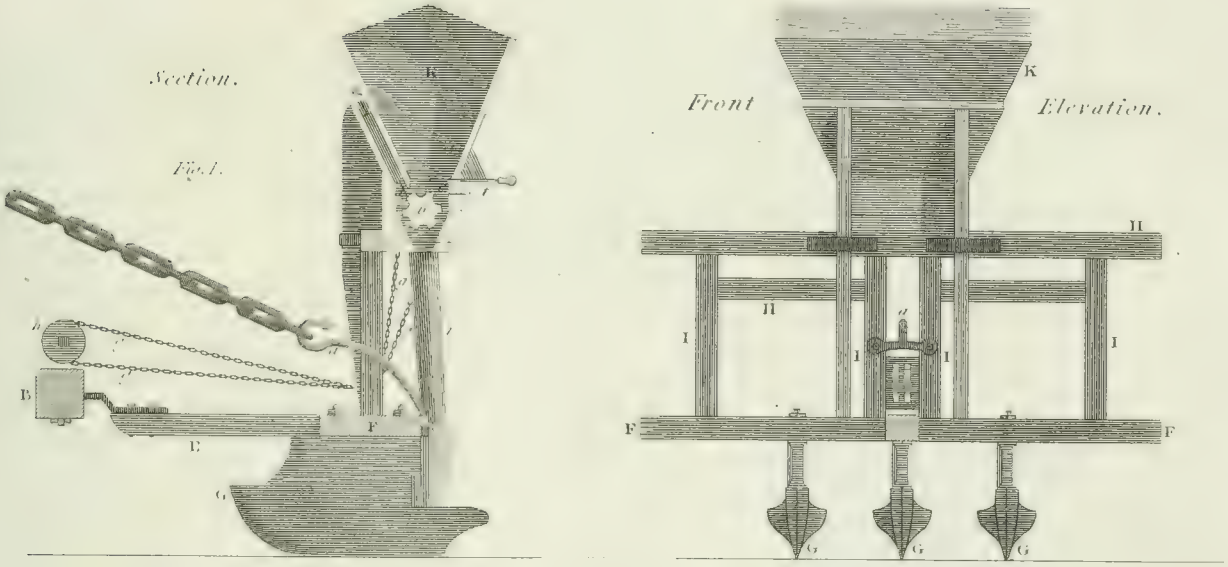

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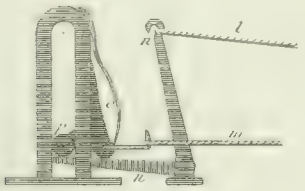
Fig. 3.



Perspective View of the Machine.

Fig. 4.

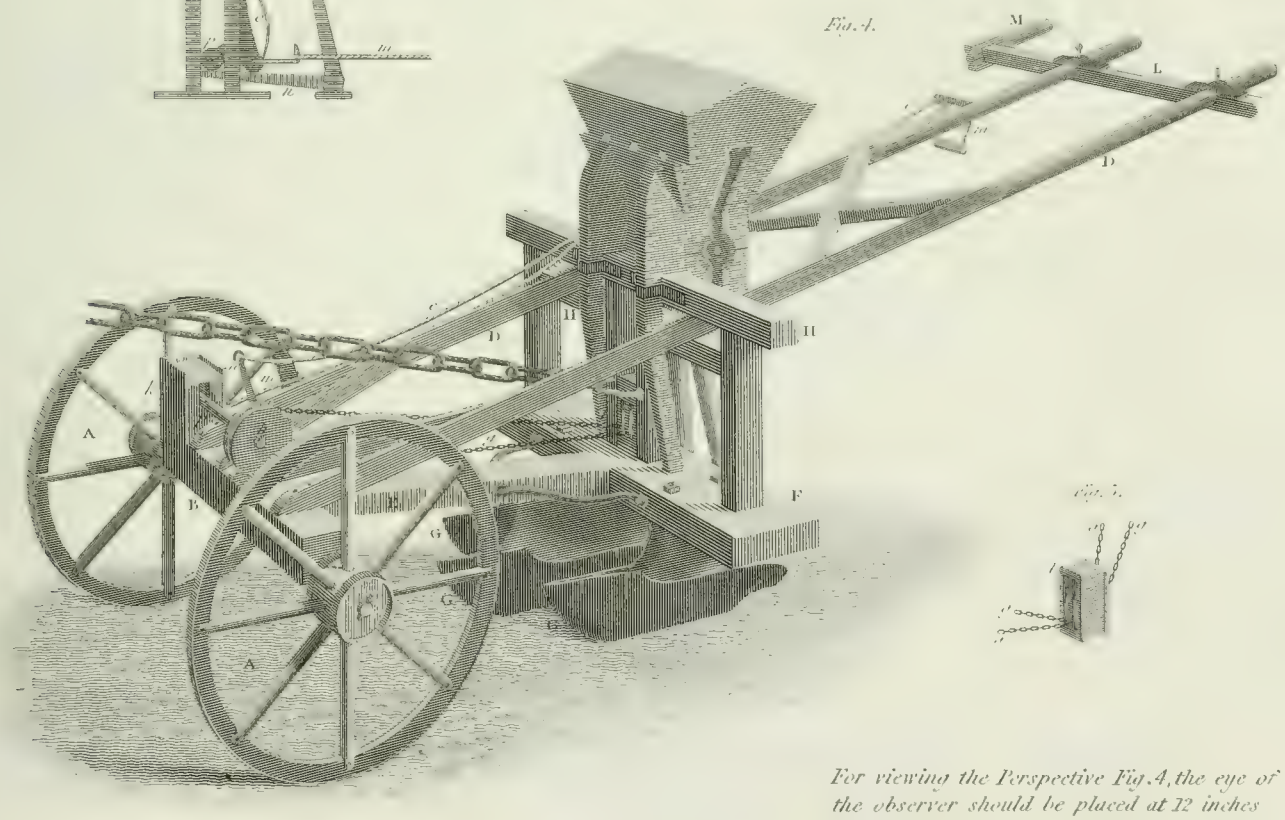


Fig. 5.

For viewing the Perspective Fig. 4, the eye of the observer should be placed at 12 inches perpendicular distance from the intersections of the line V.W.

W

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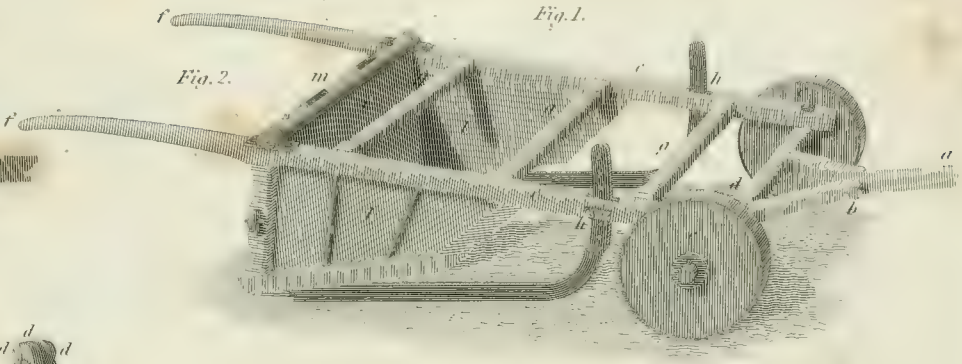
Mr. Charles Machine for Levelling Land.

Fig. 1.



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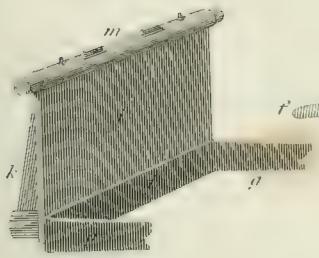
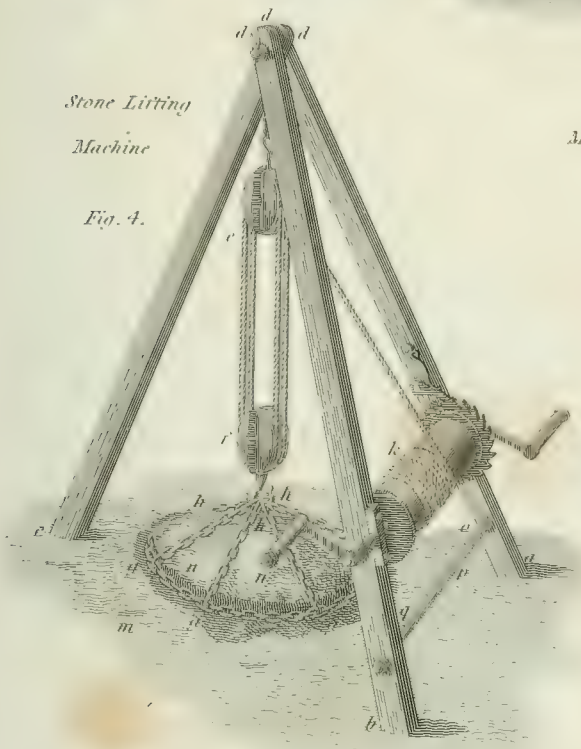


Fig. 3.

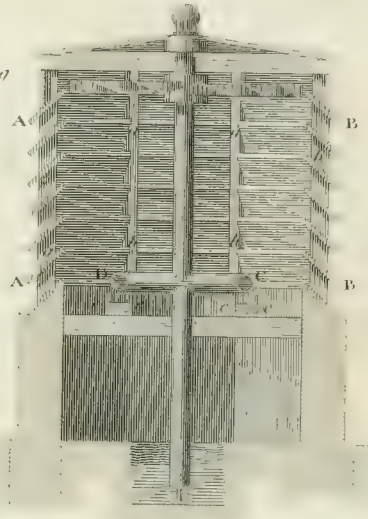
Stone Lifting Machine

Fig. 4.



Machine for Raising Water.

Fig. 5.



Machine for Raising Water, Invented by Mr. Sergeant.

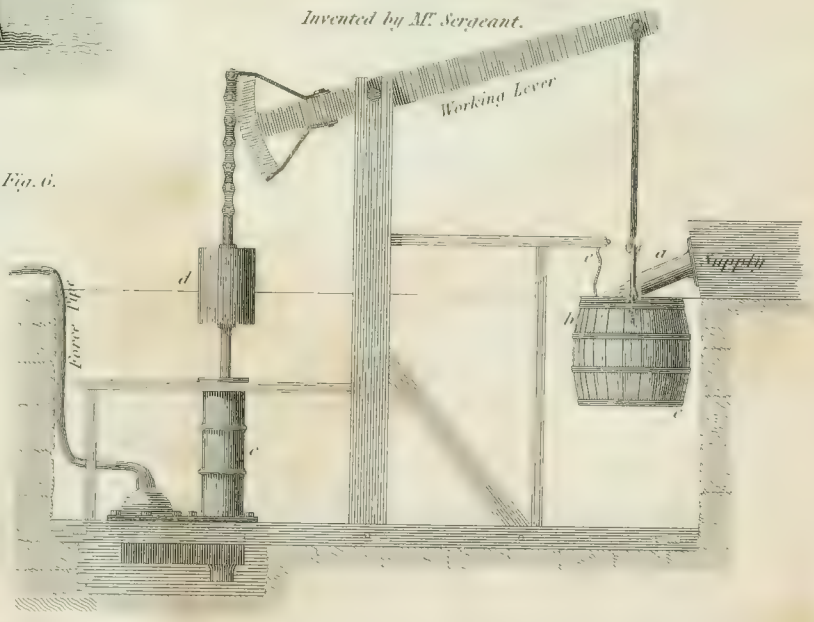
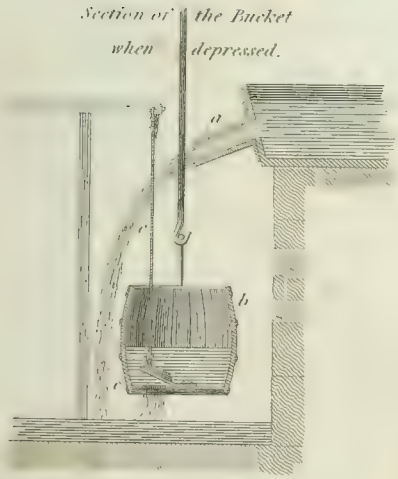


Fig. 6.

Section of the Bucket when depressed.



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GRAZING AND HARROWS.

Double Jointed Harrow

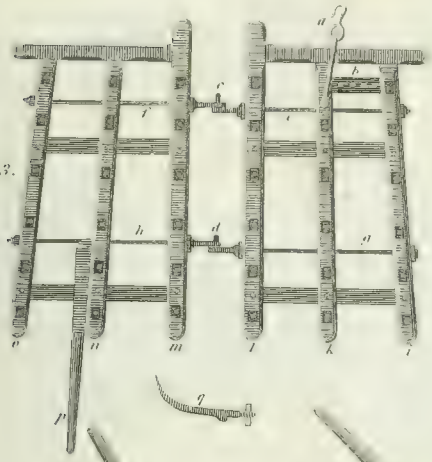


Fig 3.

Improved Harrow

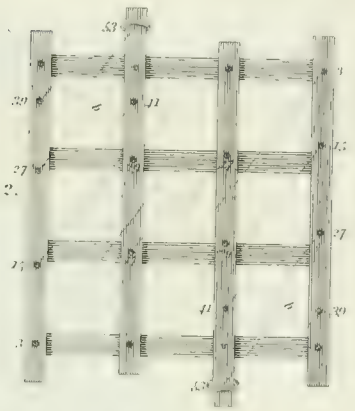


Fig 2.

Common Harrow

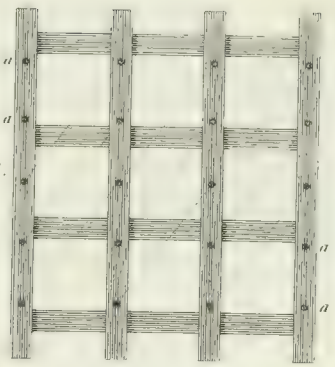
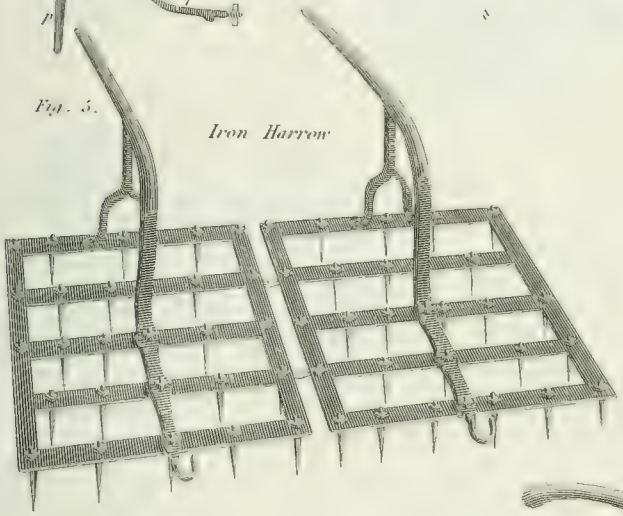


Fig 1.

Fig. 5. *Iron Harrow*



Double Harrow with top bar

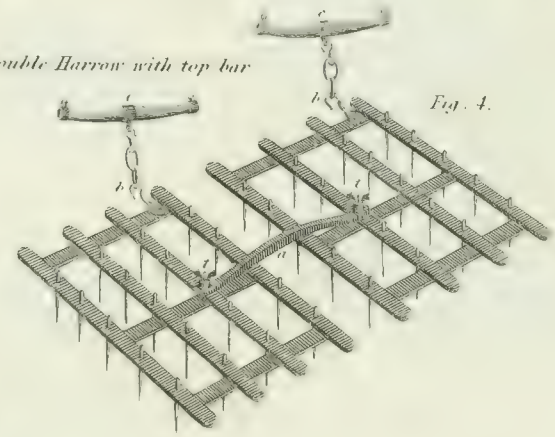


Fig. 4.

Fig. 6. Grass Harrow

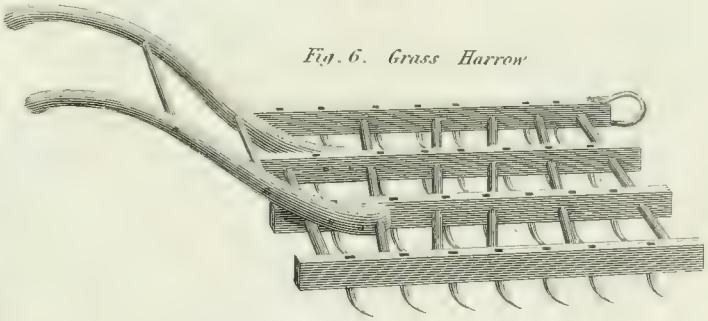


Fig 8.

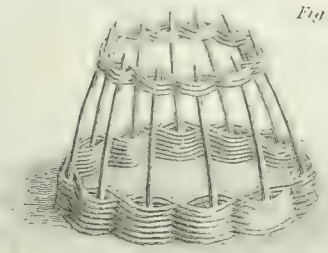
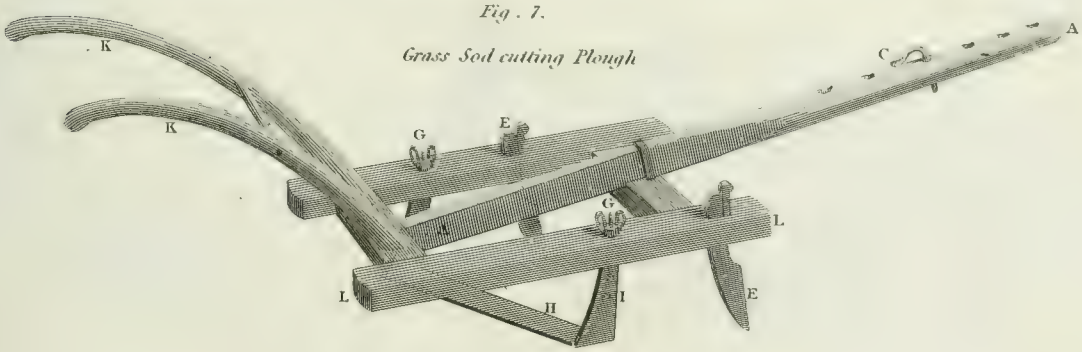


Fig. 7.

Grass Sod cutting Plough



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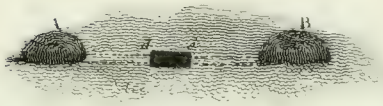
AGRICULTURE.

Mole Catching

Fig 1

Fig 2



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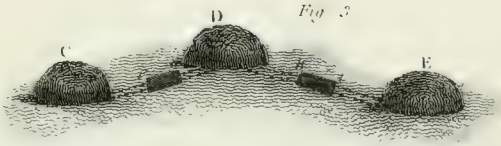

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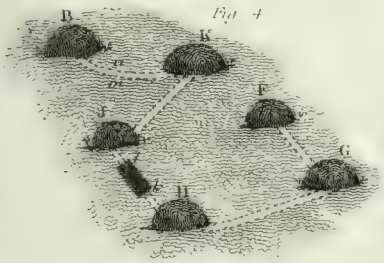
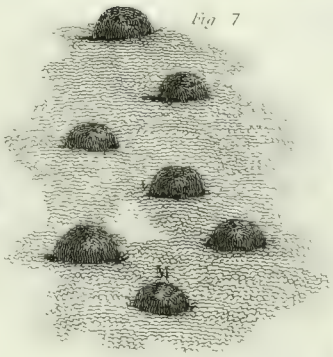


Fig 7



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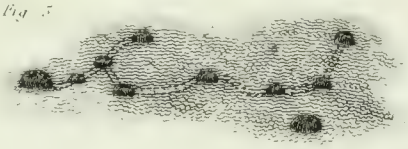

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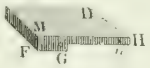

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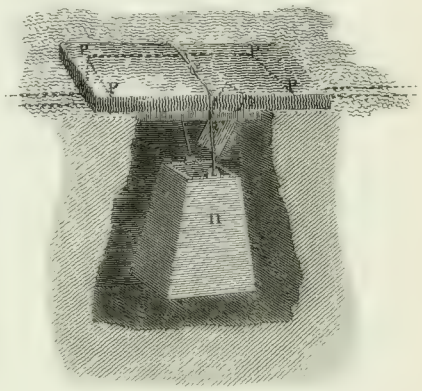
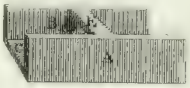


Fig 8



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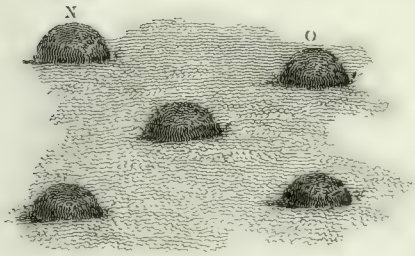
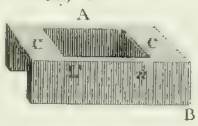


Fig 11

Fig 9



Mole Ploughs

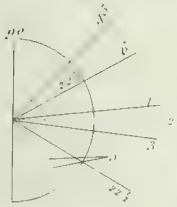


Fig. 2

Mr Lumberts Plough

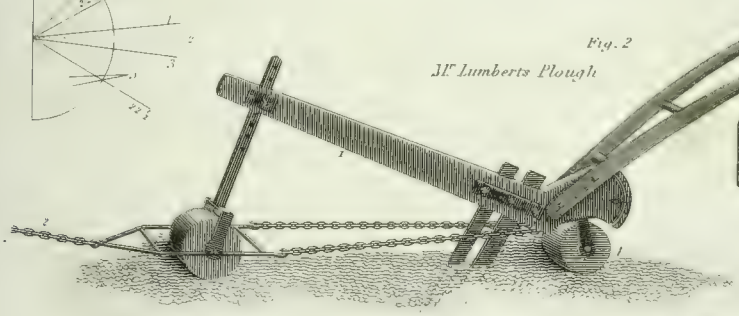
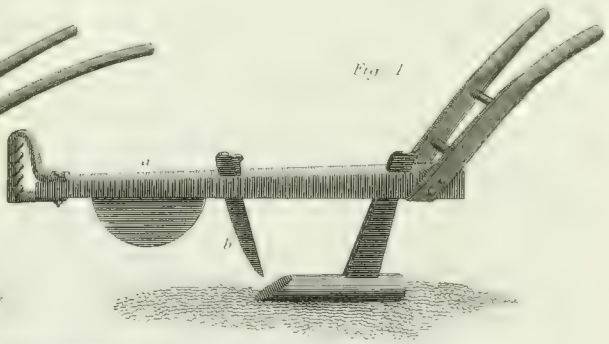
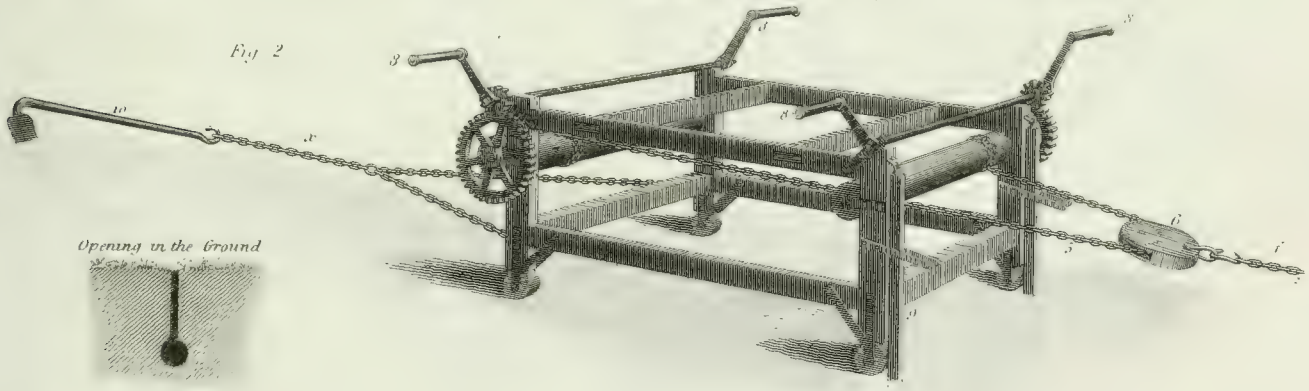


Fig 1



Machine for Drawing the Plough

Fig 2



Opening in the Ground

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AGRICULTURE.

PLATE XXV.

SWING PLOUGHS.

Fig 1

Rotherham Plough.

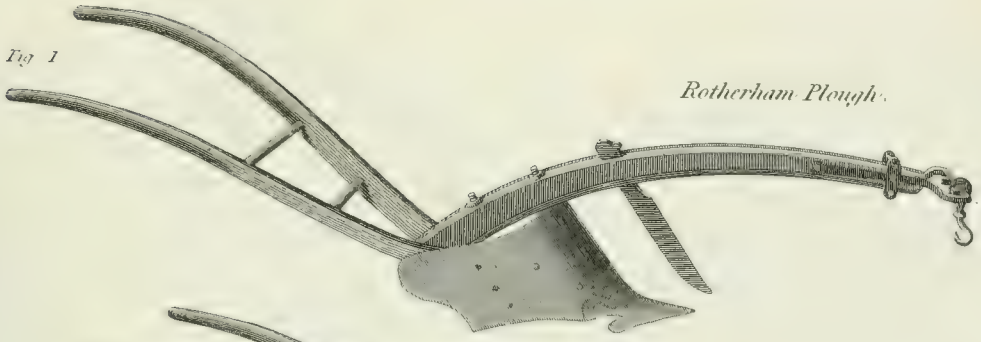


Fig. 2.

Small's Chain Plough.

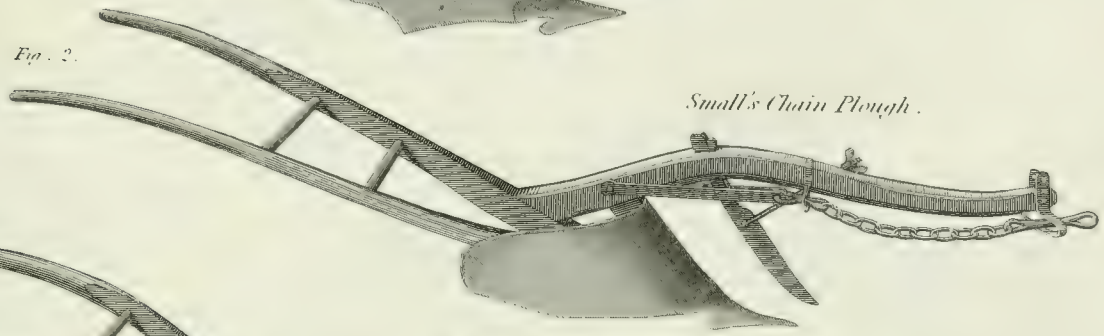


Fig. 3.

L.d Sommerville's.

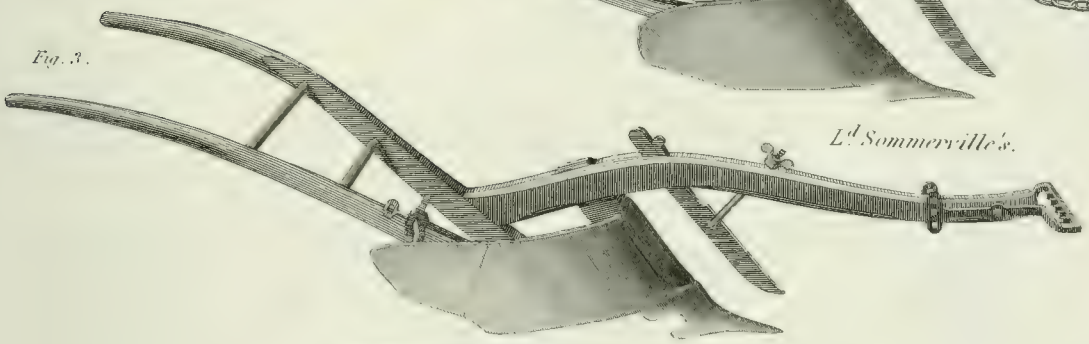


Fig. 4.

Suffolk Iron Plough.

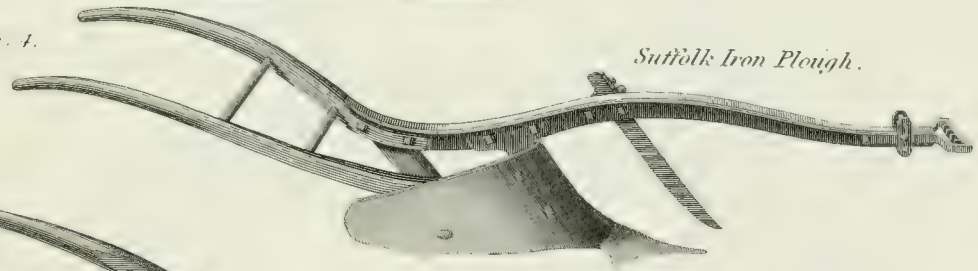
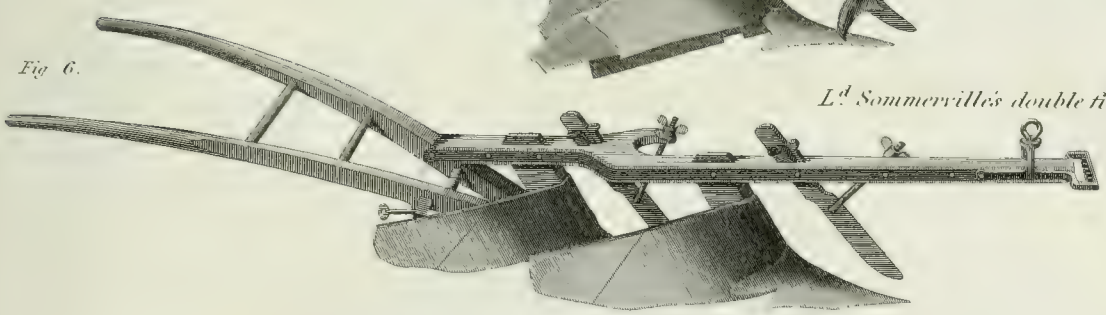


Fig. 5.

Duckets Skimcoulter.

Fig 6.

L.d Sommerville's double furrow.



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WHEEL PLOUGHS.

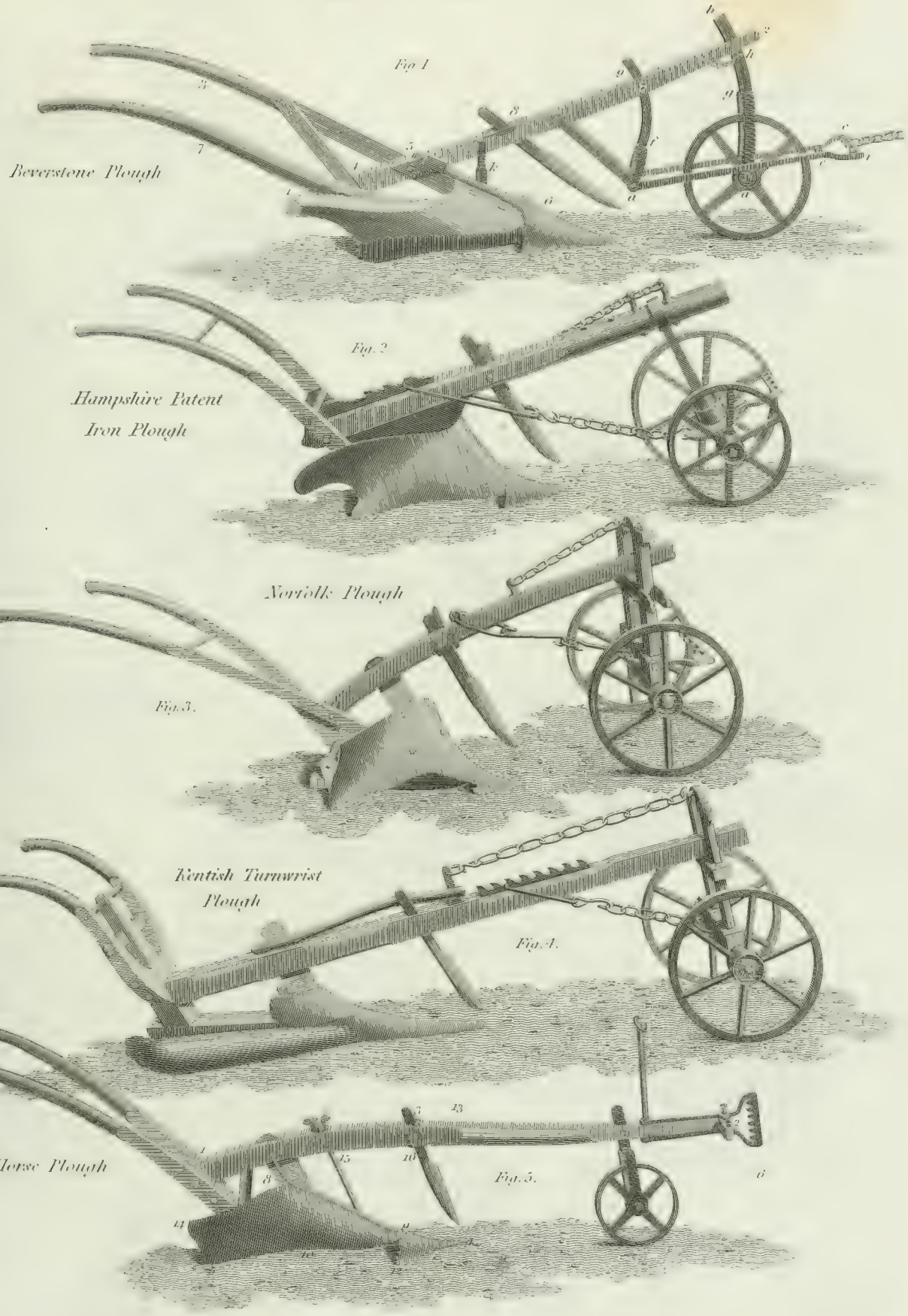

Fig. 1

Beverstone Plough

Fig. 2

Hampshire Patent Iron Plough

Norfolk Plough

Fig. 3.

Kentish Turnwrist Plough

Fig. 4.

Single Horse Plough

Fig. 5.

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AGRICULTURE.

PARING PLOUGHS & TOOLS.

Cheshire Paring Plough, furrow side view.

Fig 1.

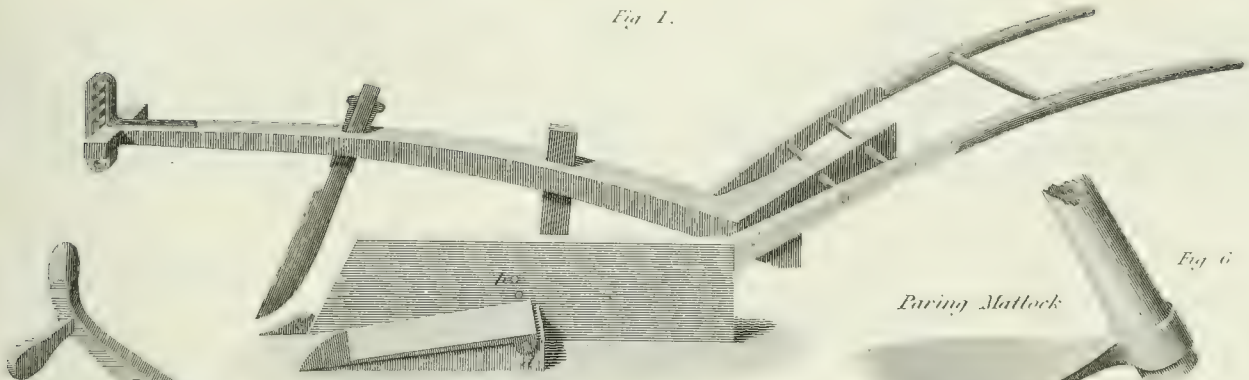
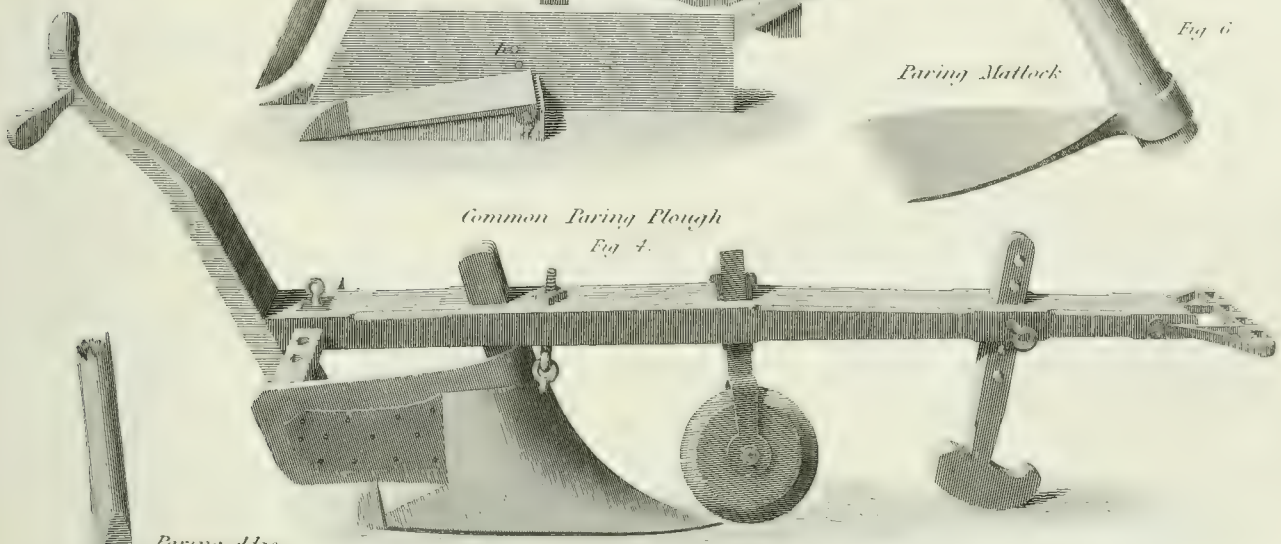


Fig 6

Paring Mattock

Common Paring Plough

Fig 4.



Paring Adze

Fig. 8.

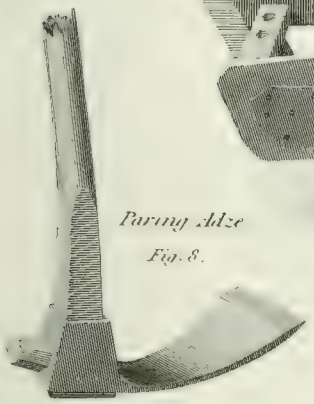
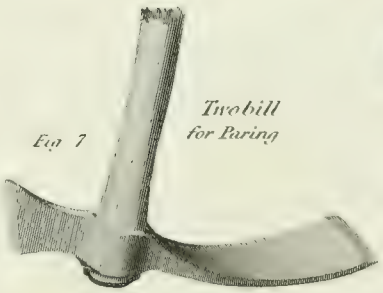


Fig 7

Twobill for Paring



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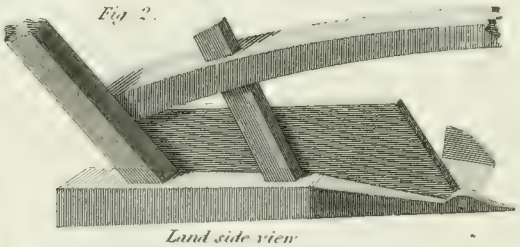
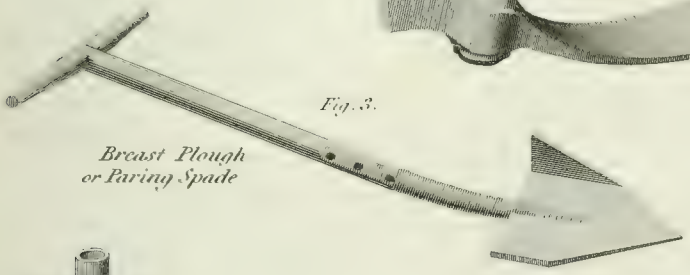


Land side view

Fig. 3.

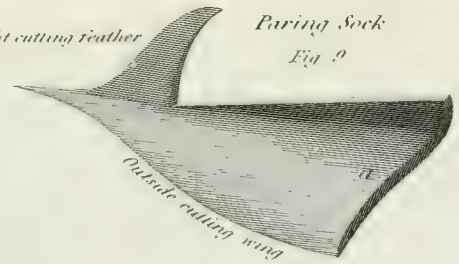
Breast Plough or Paring Spade



Upright cutting feather

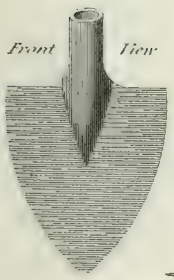
Paring Sock

Fig 9



Outside cutting wing

Front View



Paring Shovel

Fig. 5.

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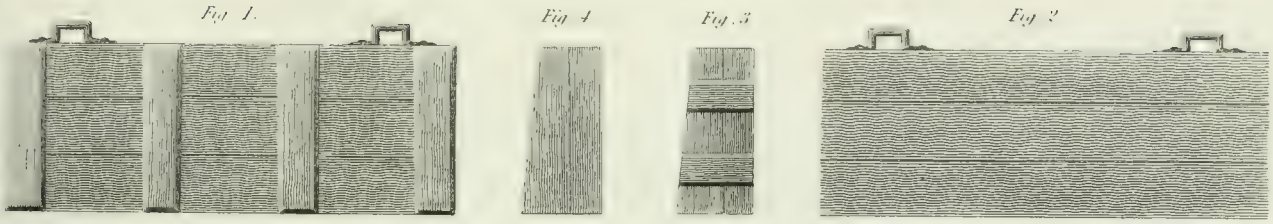
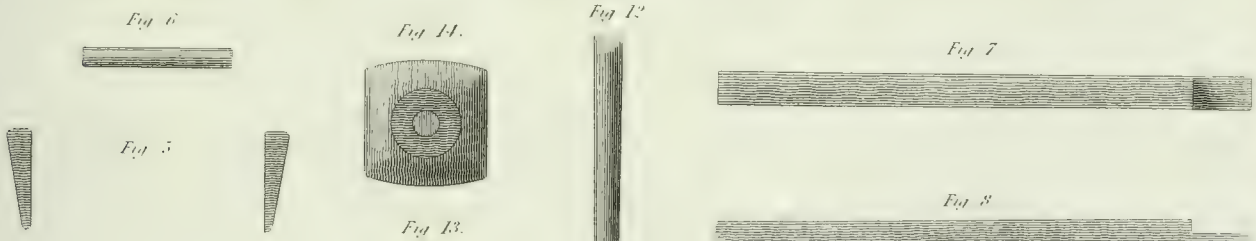
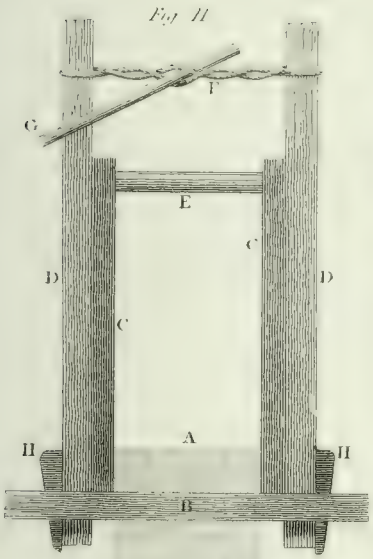
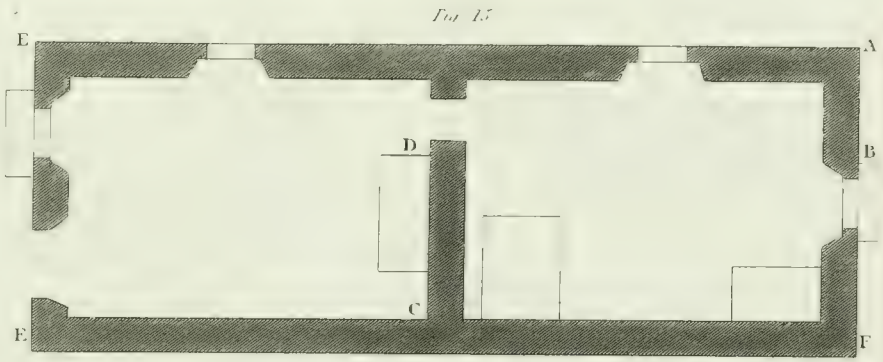
PISE.

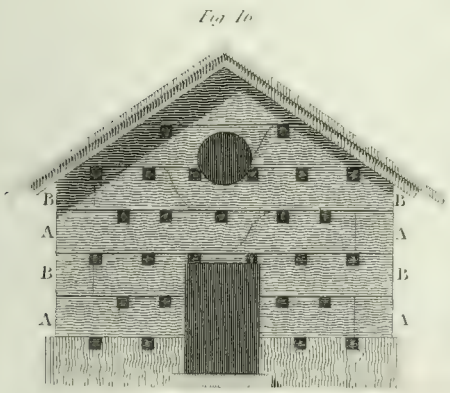
Implements for Pise or Rammed Earth Buildings.

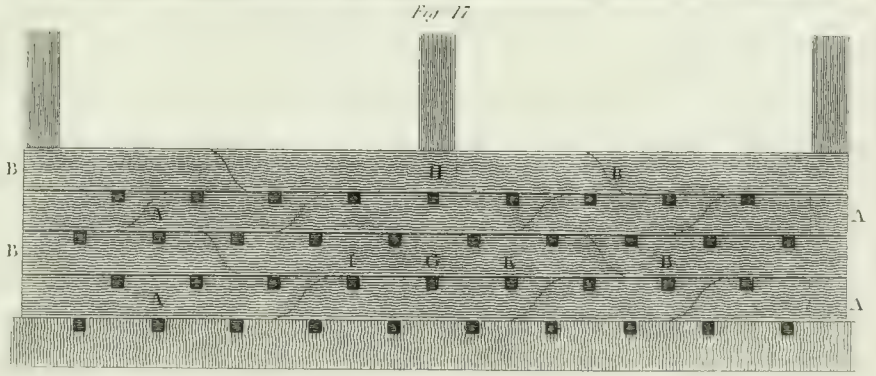












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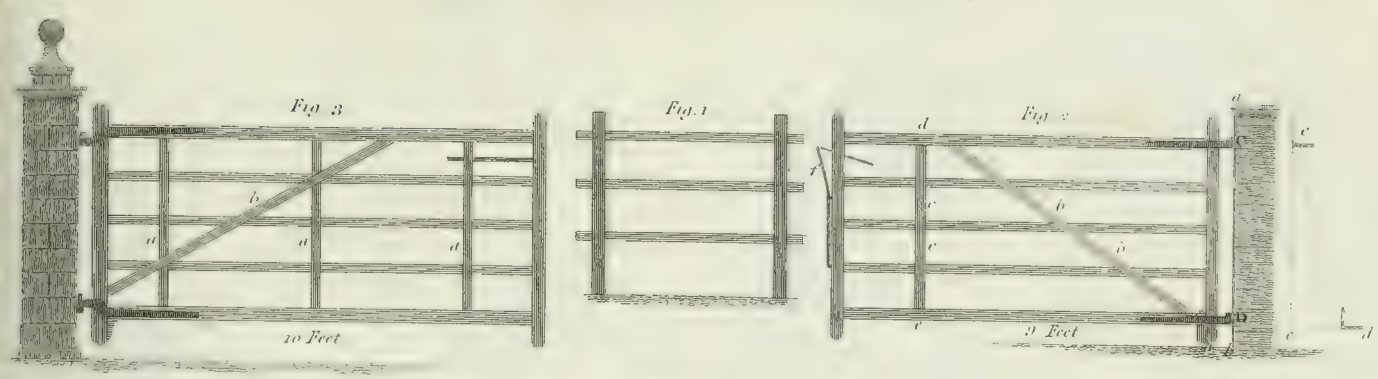
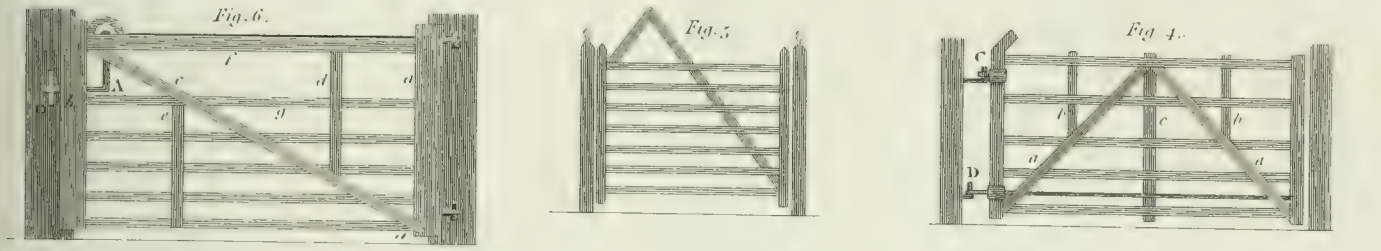
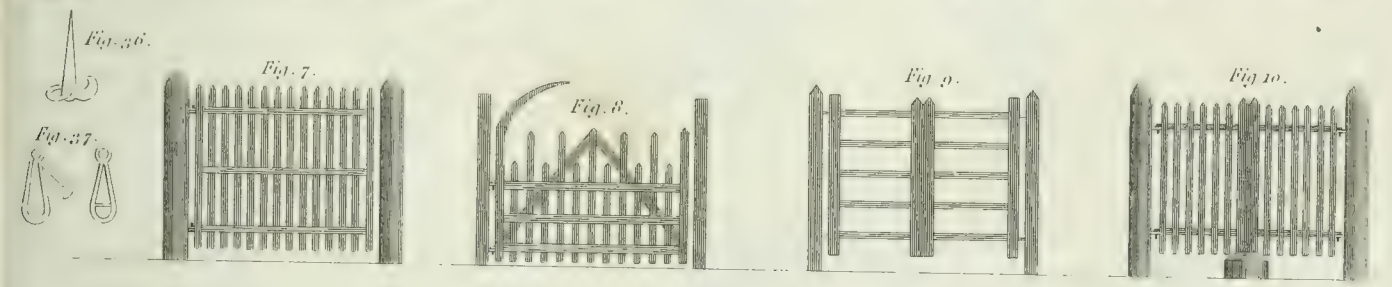
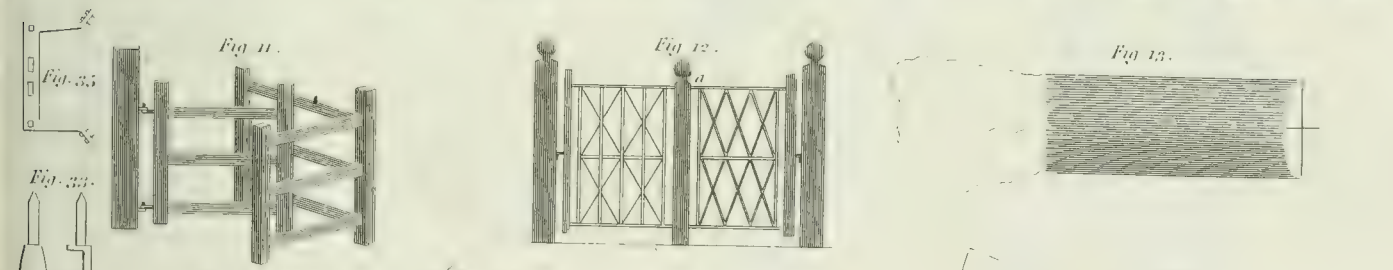
AGRICULTURE.

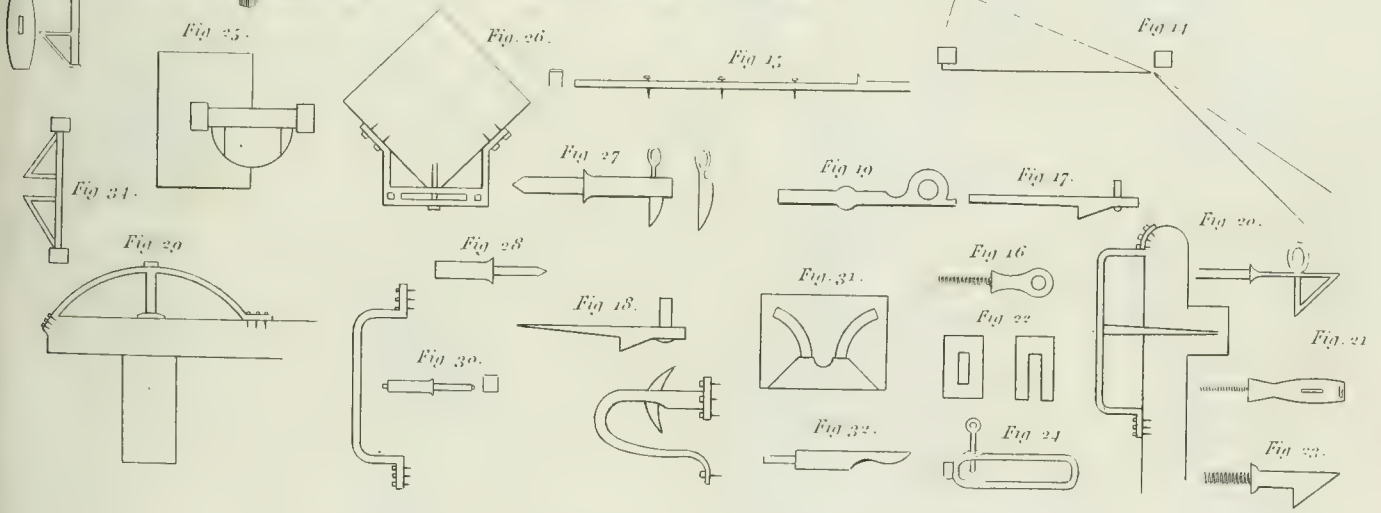
GATES, HANGINGS AND FASTENINGS.











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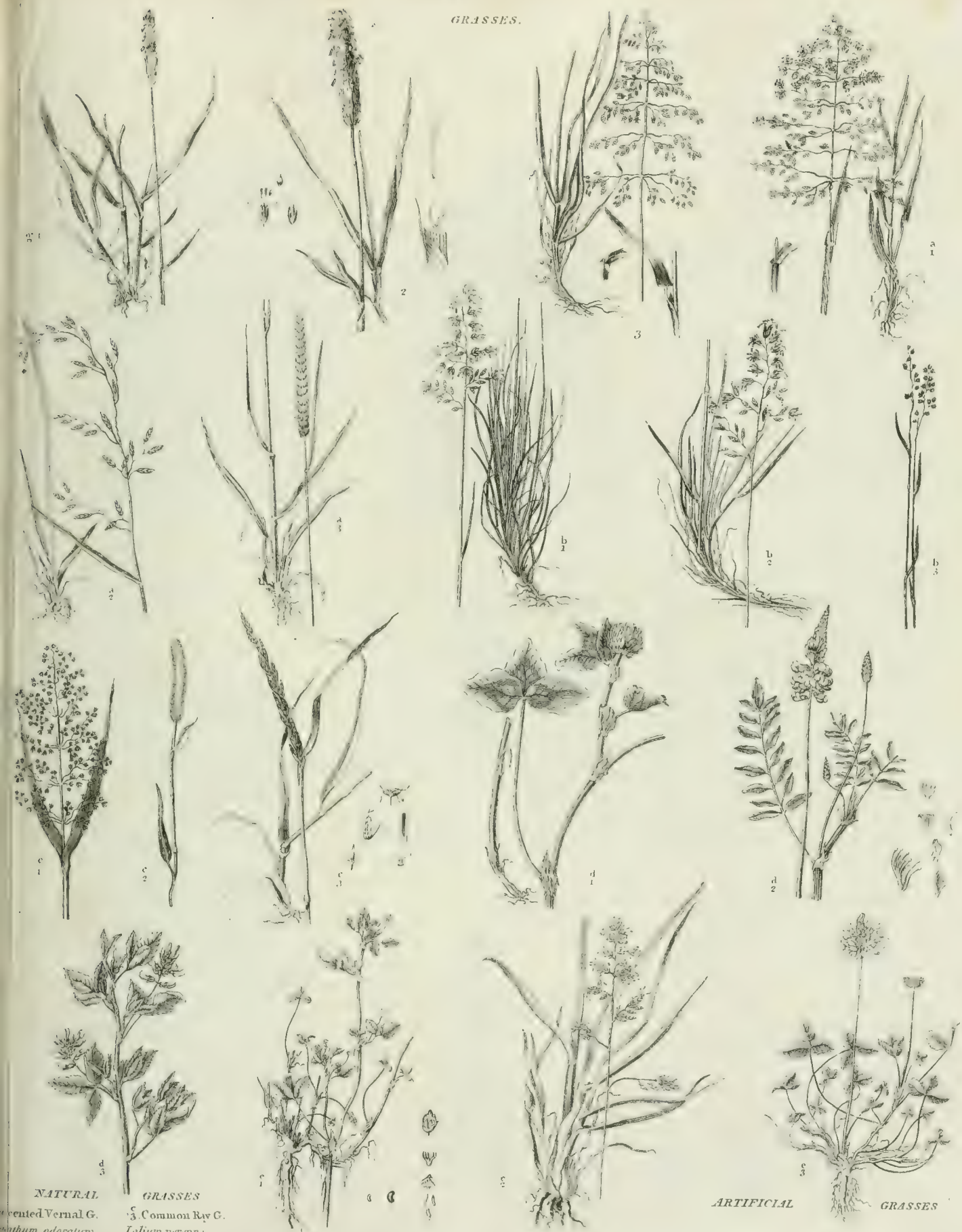
Engraved by Wilson Lowry

GRASSES.



NATURAL GRASSES

rented Vernal G. — *thum odoratum*

Foxtail G — *us pratensis*

Fescue G — *na*

c 3 Common Rye G. — *Lolium perenne*

3 Smooth Stalked Meadow G — *Poa pratensis*

b 2. Hard Fescue G. — *Festuca duriuscula*

a 1 Rough Stalked M.G — *Poa trivialis*

b 3. Flat Meadow G. — *Poa compressa*

a 3 Meadow Fescue G — *Festuca pratensis*

f. Marsh Meadow G. — *Poa palustris*

c 3 Crested Dogstail G — *Cynosurus cristatus*

c 2 Knot Grass — *Phleum nodusum*

ARTIFICIAL GRASSES

d 1 Red or Broad Clover — *Tripolium pratense*

f Trefoil — *Medicago Lupulina*

d 2 Saintfoin — *Hedysarum onobrichis*

c Rough Cocks foot G. — *Dactylis glomerata*

d 3. Lucern — *Medicago sativa*

c 3 White or Dutch C. — *Trifolium repens*

Published as the Act directs, July 1st 1814

Fig. 3.

Kiln for General Use.

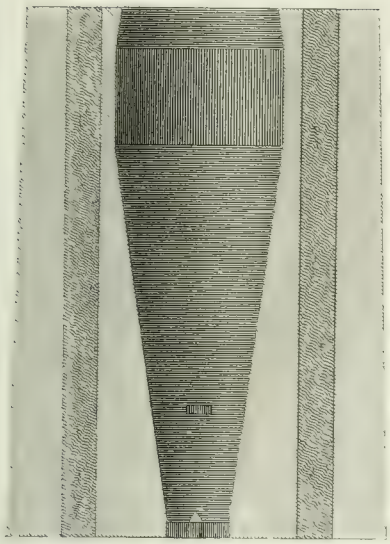


Fig. 2.

Mr Rawson's Kiln.

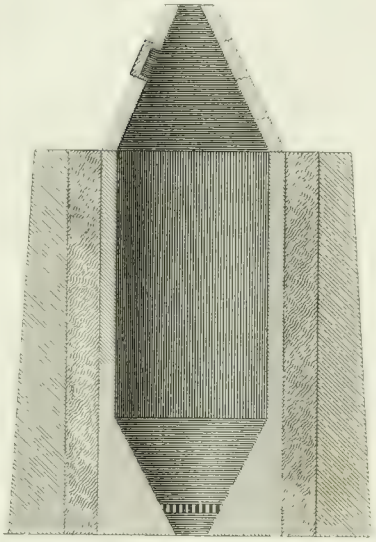
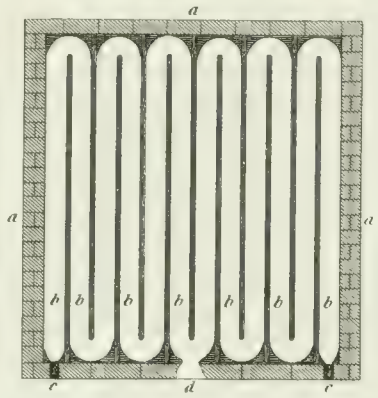


Fig. 8.

Mr Coppinger's Malt Kiln.



Mr Pepper's Malt Kiln.

Fig. 6. Plan of the Floor of the Kiln.

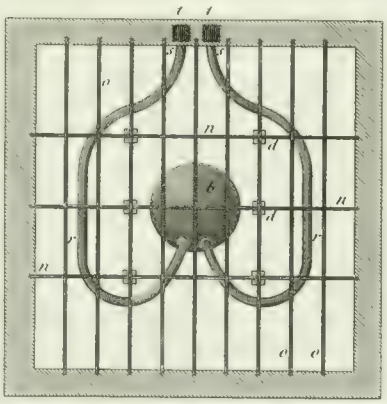
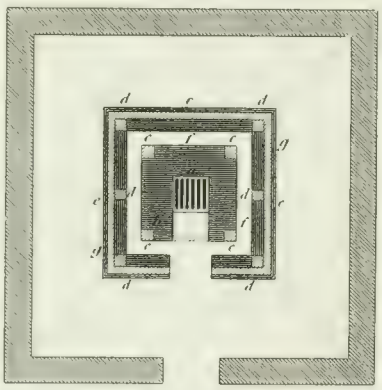


Fig. 4. Ground Plan.



Count Rumford's Lime Kiln.

Fig. 1.

Section of the Chimney.

Fig. 7.

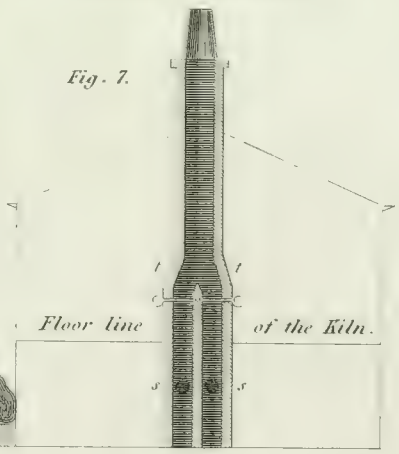
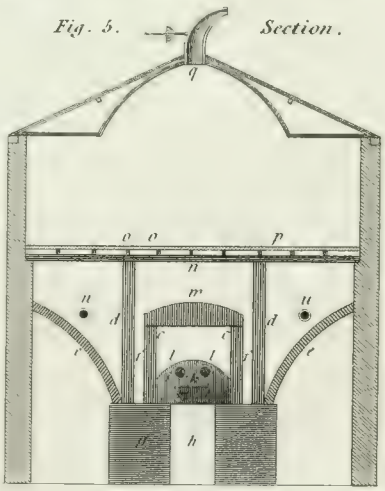


Fig. 5. Section.



Farey del. Published as the Act directs, 1813, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry Sculp.

Fan Machine.

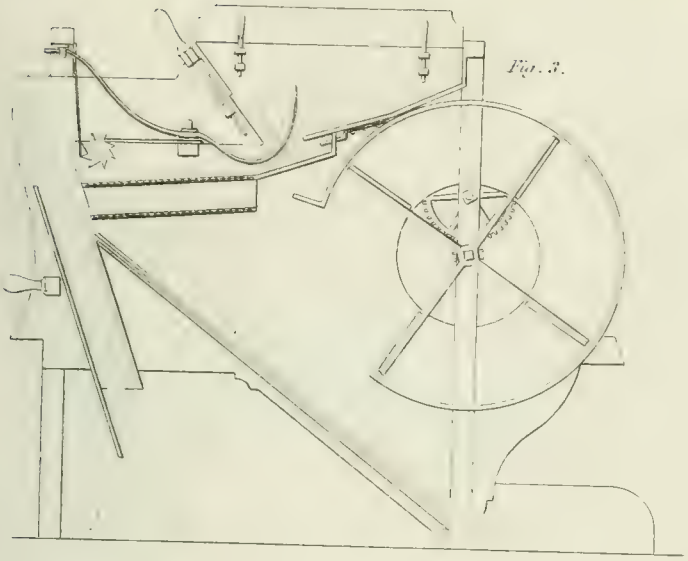
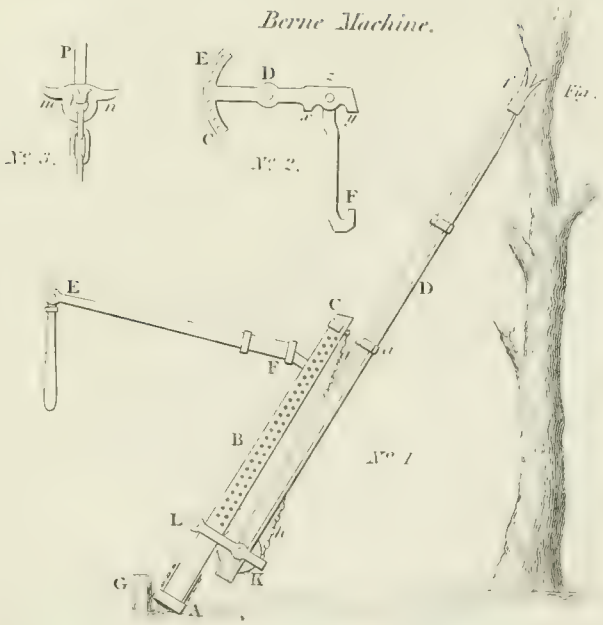


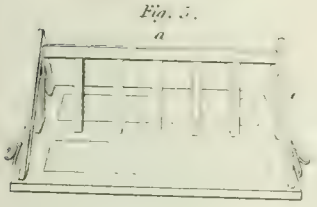
Fig. 3.

Berne Machine.



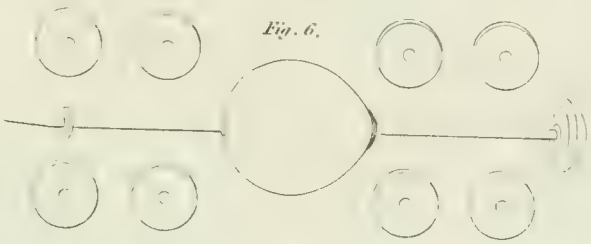
Yorkshire Hay Sweep.

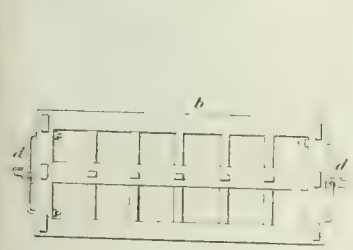
Fig. 5.

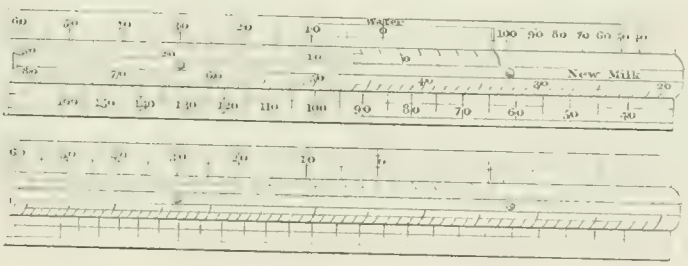


Lactometer.

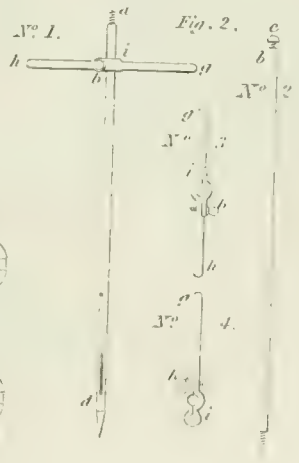
Fig. 6.



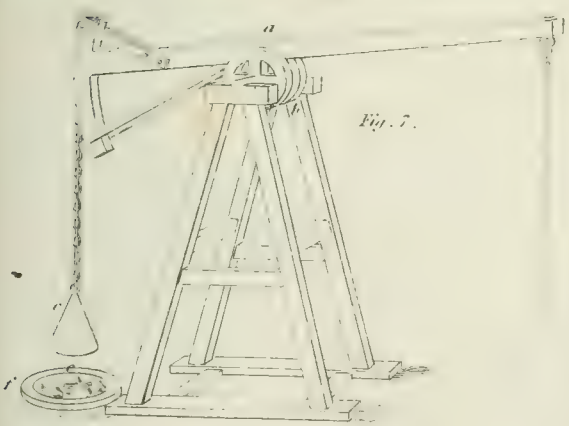




Borers.

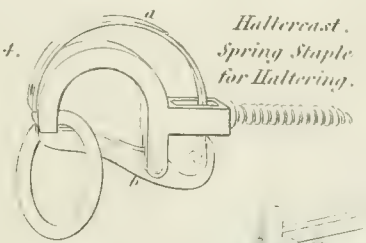


Lime Stone Pounding Machine.



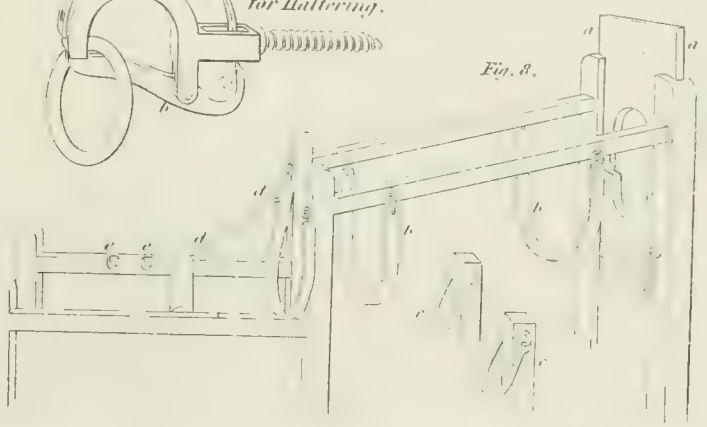
Halltercast. Spring Staple for Haltering.

Fig. 4.



Ox Shoeing Machine.

Fig. 8.



J. Farey delin.

Published as the Act directs, 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry Sc.

QUARRIES, PITS, MINES &c. Draining them.

Fig. 1. Section of the DRAINS.

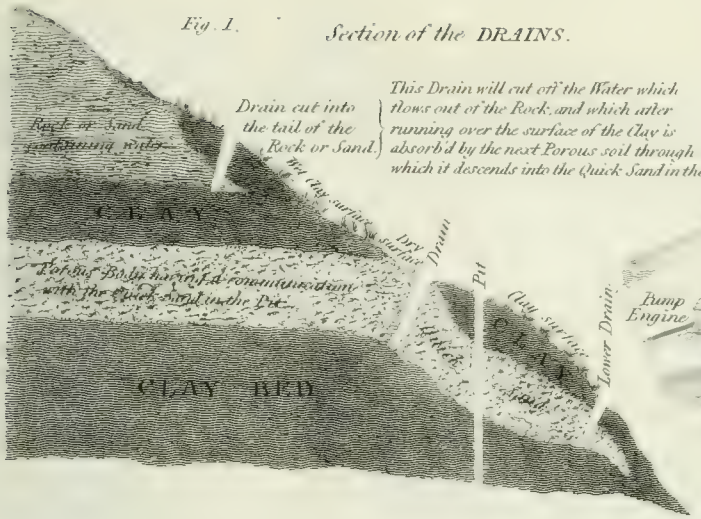

Rock or Sand containing water
Drain cut into the tail of the Rock or Sand
This Drain will cut off the Water which flows out of the Rock, and which after running over the surface of the Clay is absorb'd by the next Porous soil through which it descends into the Quick Sand in the Pit
CLAY
Wet clay surface
Dry surface
Drain
Pit
Clay surface
Lower Drain
Holes
CLAY BED

Fig. 2

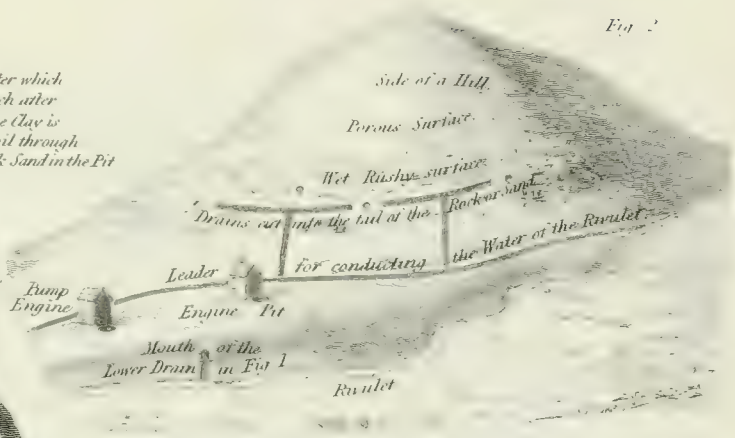


Fig. 3

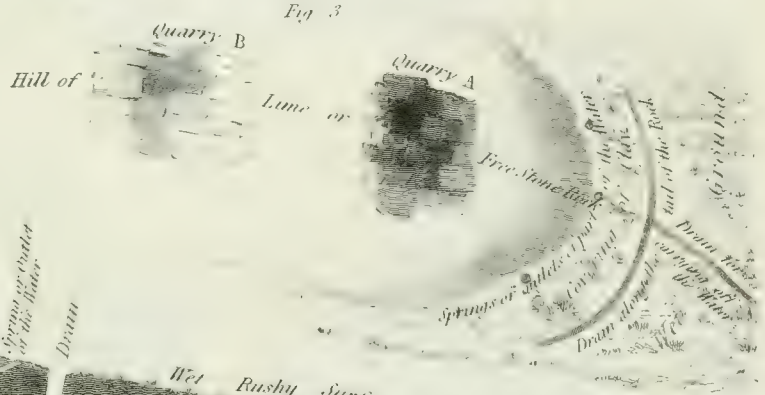


Fig. 4

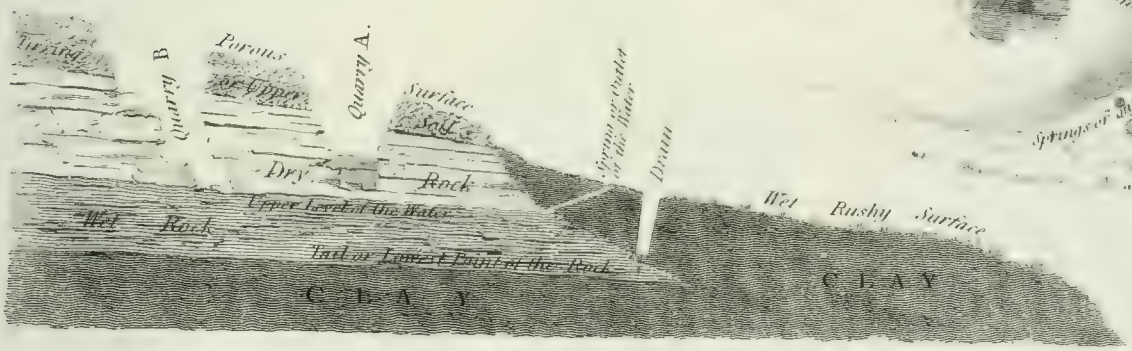
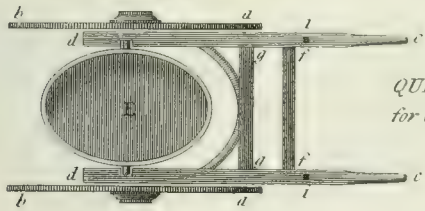


Fig. 6



QUENDON BARROW
for carrying water.

Fig. 7

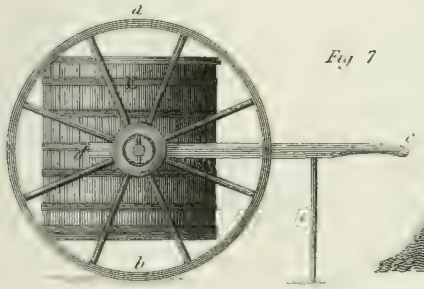
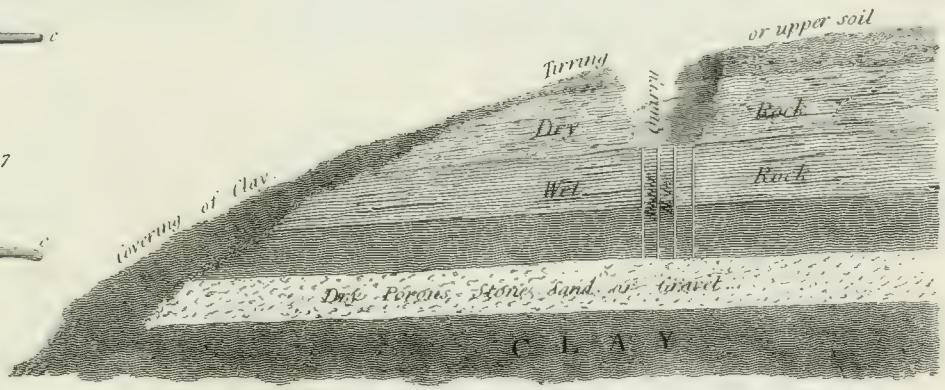


Fig. 5.



Perhaps under this Clay Bed there may be another dry porous Stratum into which the water may be let down and reduced to a still lower level, and this may be ascertained by boring an auger hole through the Clay.

J. Farey, delin. Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. W. Lowry, Sc

AGRICULTURE.

POTATOE HARROW and SET SCOOPS.

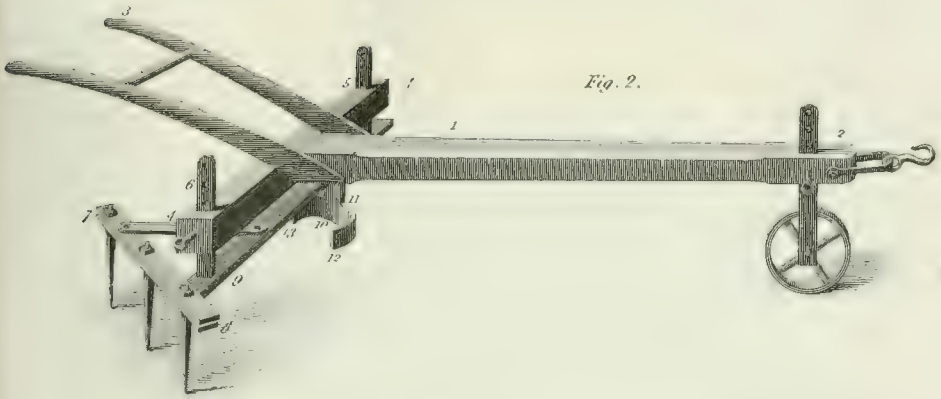
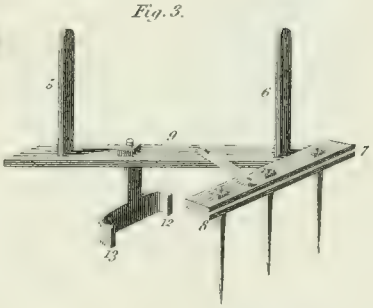


Fig. 2.

Side View

Fig. 3.



Construction of Ponds.

Fig. 6.

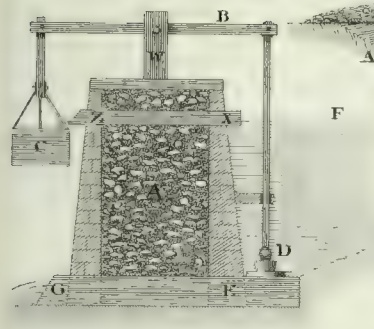
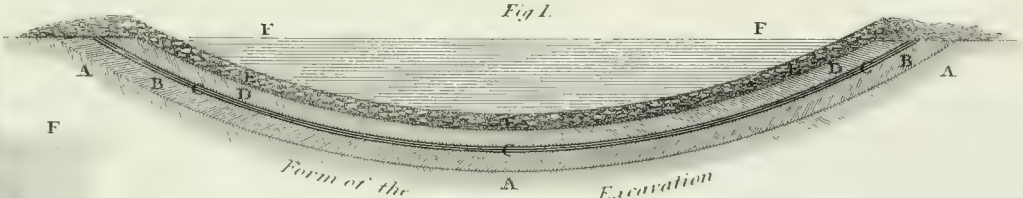


Fig 1.



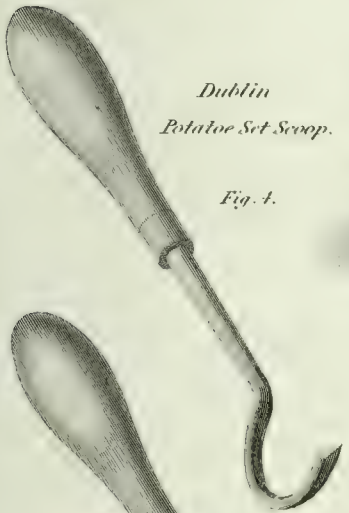
Form of the Excavation

Moveable Pig, or Swine Case.

Fig. 8.

Dublin Potatoe Set Scoop.

Fig. 4.



Fixed Pig or Swine Case.

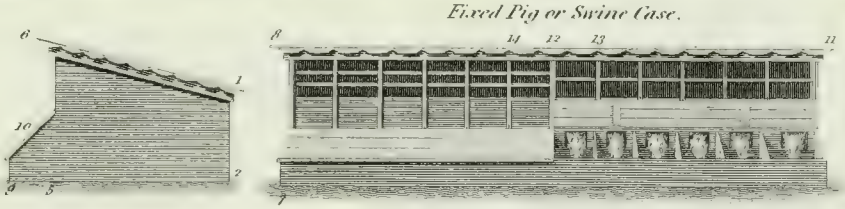
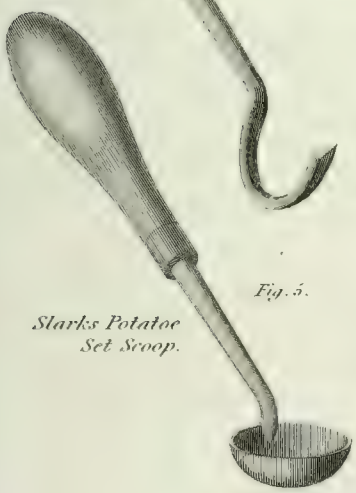
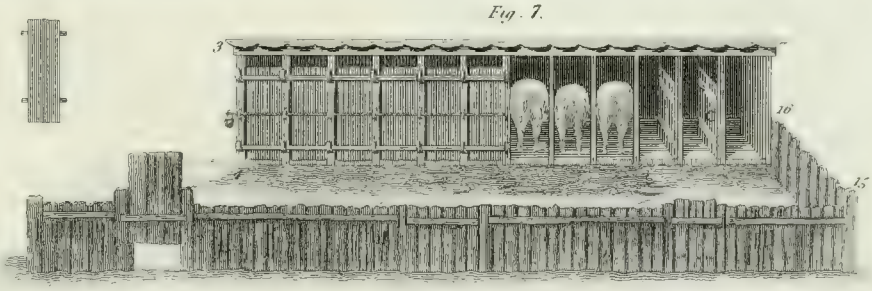


Fig. 7.

Starks Potatoe Set Scoop.

Fig. 5.





J. Farey delin. *Published as the Act directs, 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.* *Lowry Sc.*

THE PIGGERY AT HIS GRACE THE DUKE OF BEDFORD'S FARM AT WOBURN ABBEY.

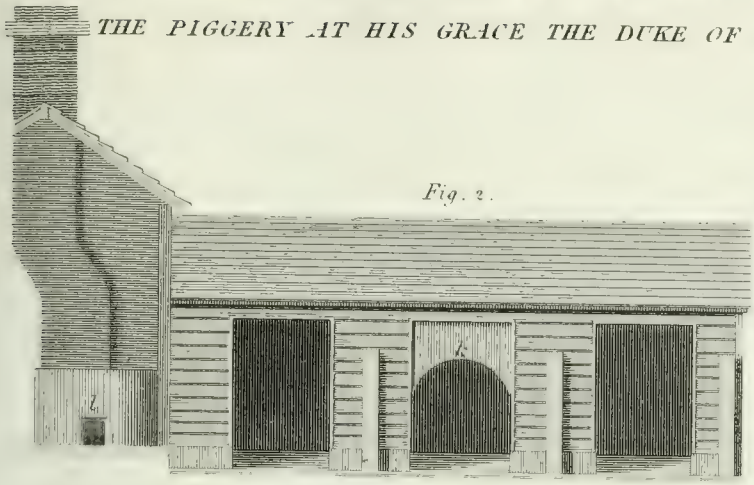


Fig. 2.

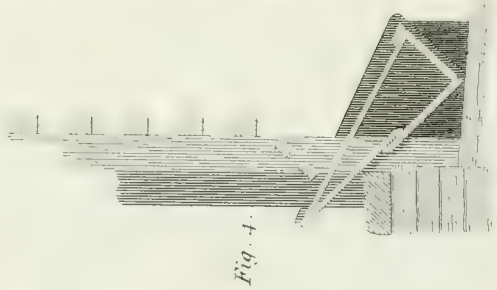


Fig. 4.

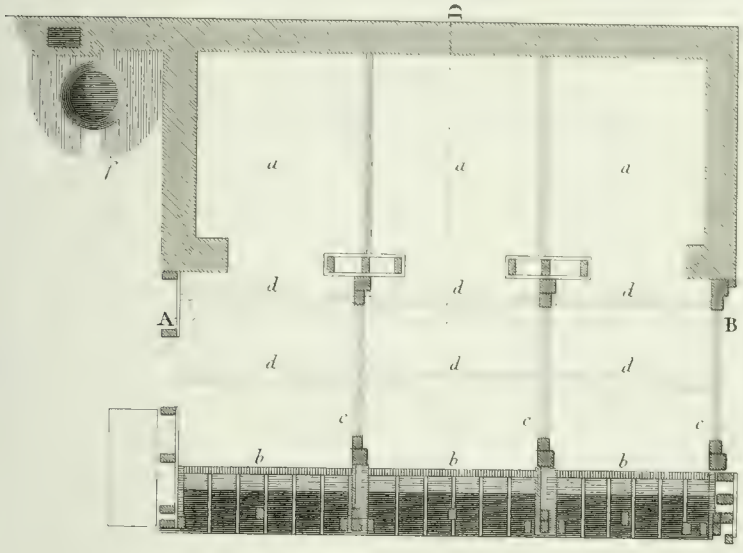
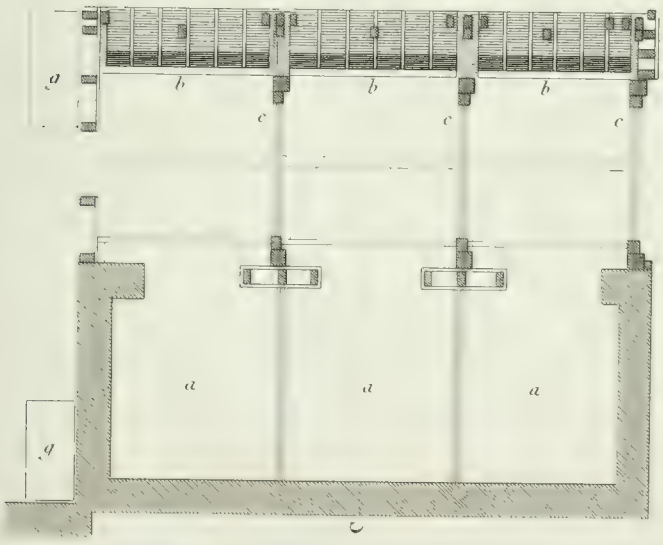


Fig. 1



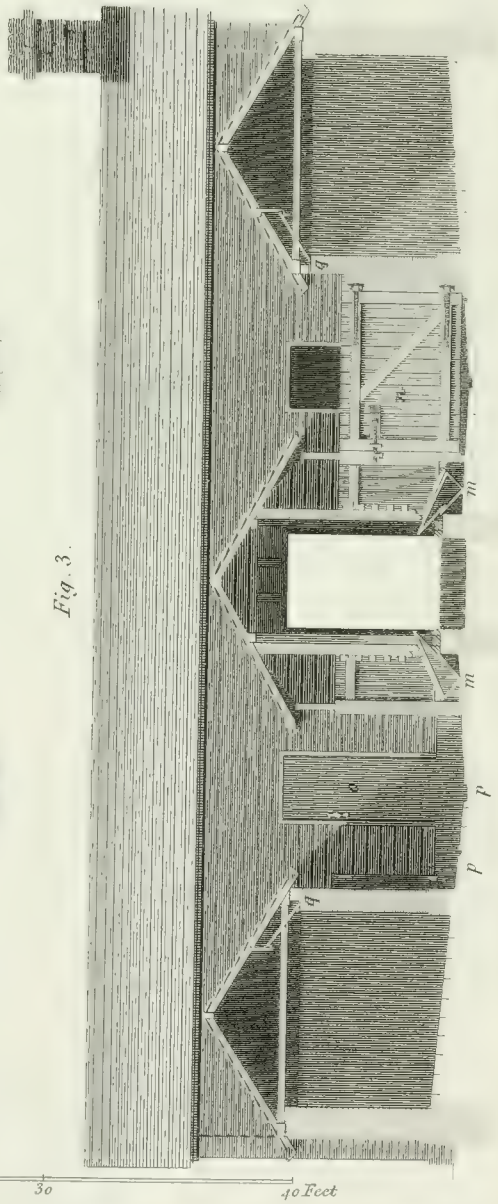


Fig. 3.

Published as the Act directs, May 2, 1803, by Longman & Rees, Paternoster Row.

Engraved by Wilson Lowry

PALPABLE ARITHMETIC AND WRITING.

Fig. 1.

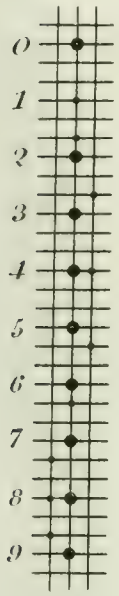



Fig. 2.

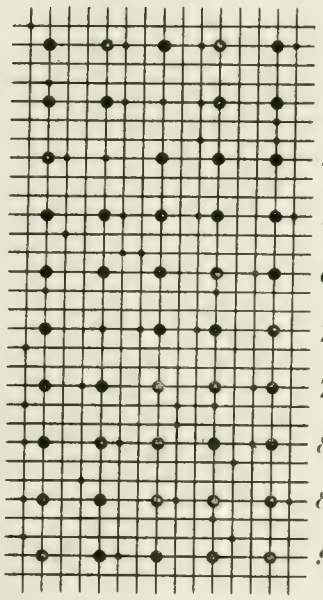
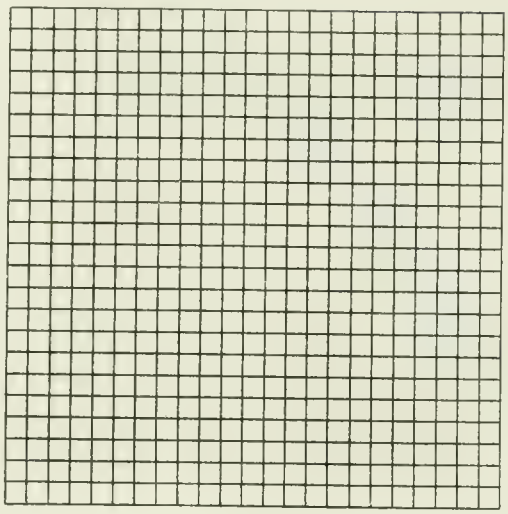
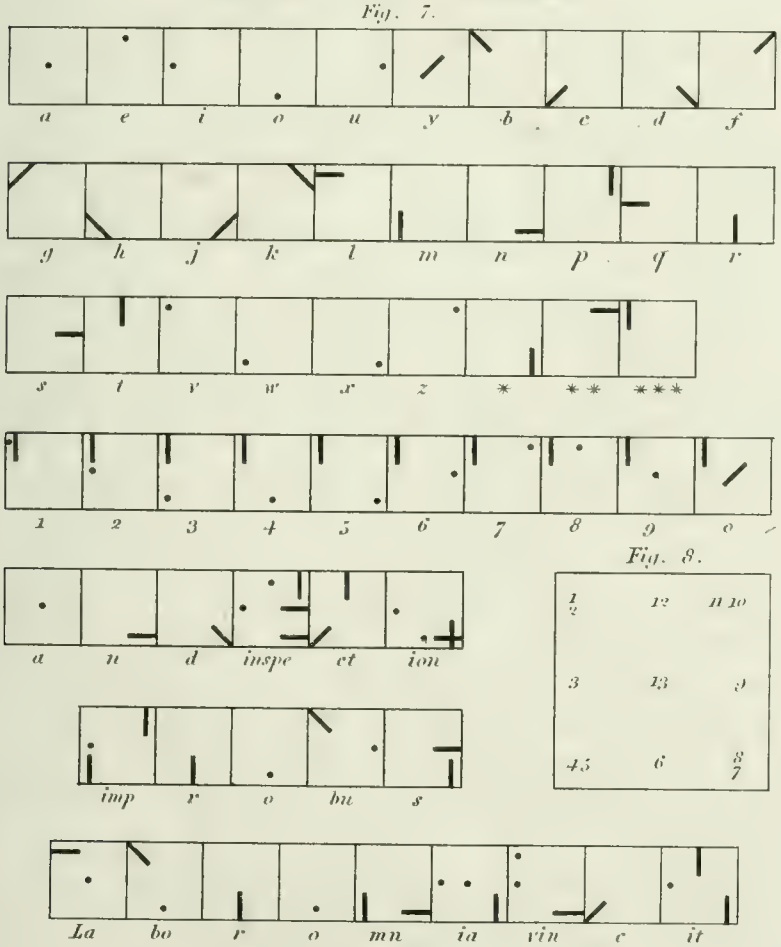


Fig. 3.



ART OF WRITING IN THE DARK.

Fig. 7.



Denominations of the Letters.

1	2	3	4	5	6	7	8	9	10	11	12	13
b	l	i	c	m	o	d	u	u	f	p	e	a
g	q	h		r	j		s	k			y	
v		w		x		z						

* *The square distinguished by one star underneath contains the mark to denote the end of a word.*

** *The square so distinguished contains the mark denoting a capital letter.*

*** *The square so distinguished contains the mark signifying a numeral character or number.*

Fig. 8.

Published as the Act directs, 1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

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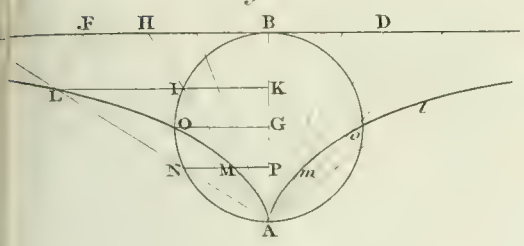
CISSOID.

Fig. 1.



CONCHOID.

Fig. 2.

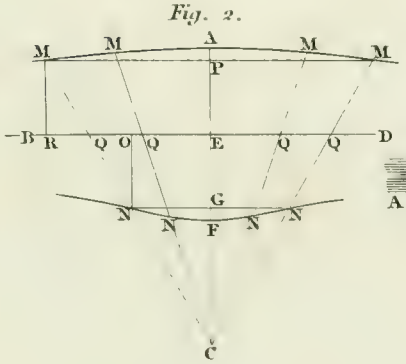


Fig. 3.

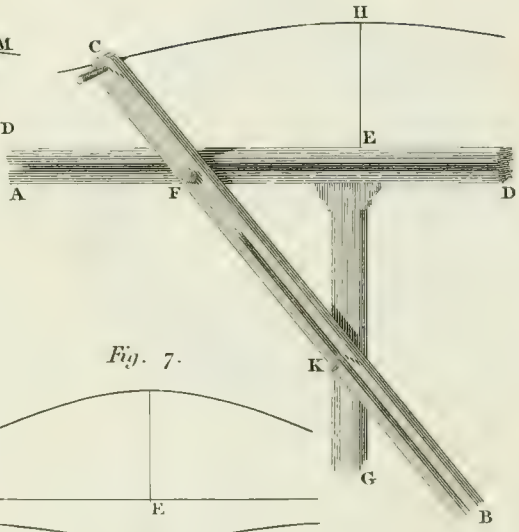


Fig. 4.

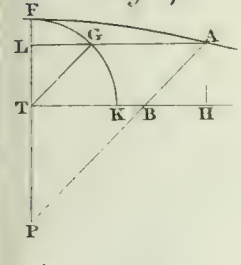


Fig. 5.

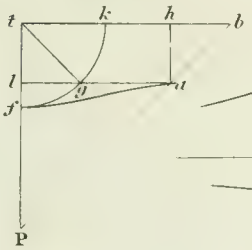


Fig 6.

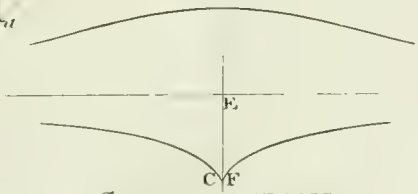
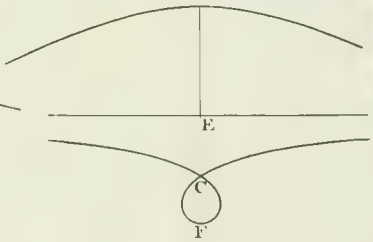


Fig. 7.



CONSTRUCTION.

Fig. 8.

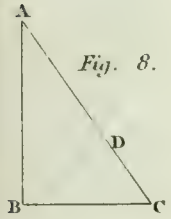


Fig. 9.

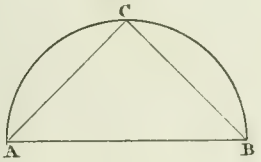


Fig. 10.

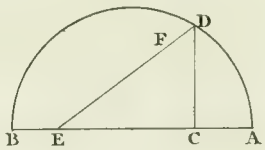


Fig. 11.

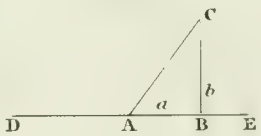


Fig. 12.

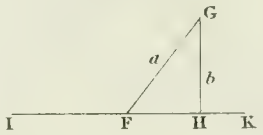


Fig. 13.

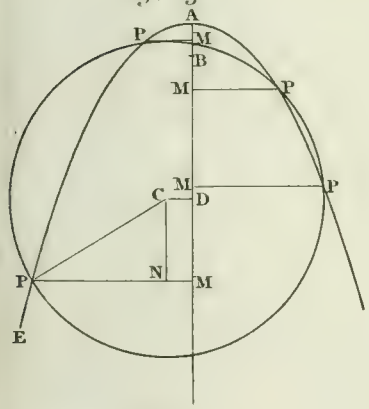


Fig. 14.

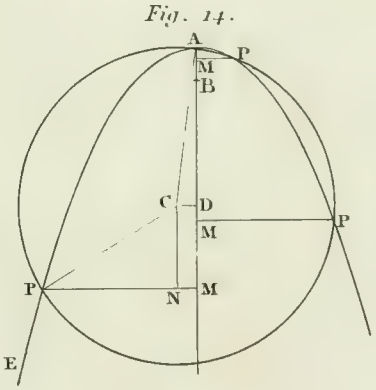


Fig. 15.

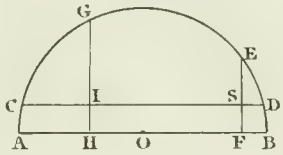
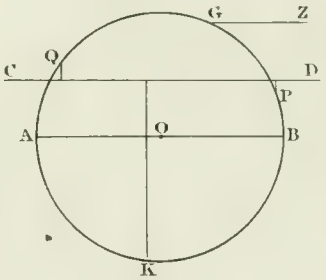


Fig. 16.



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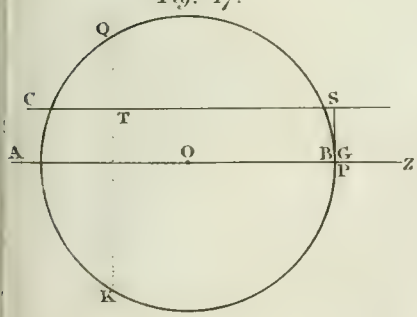

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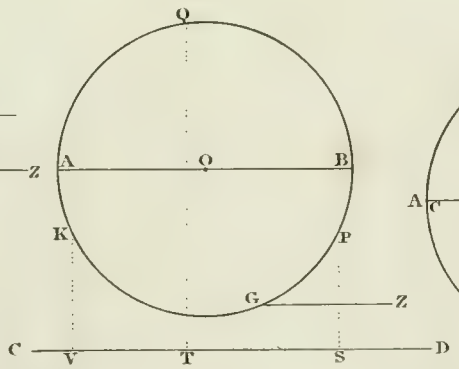

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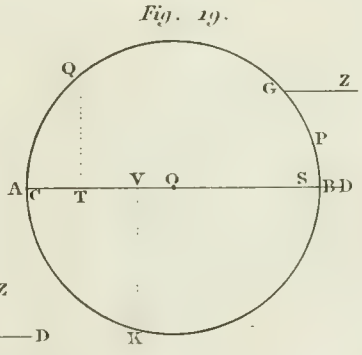

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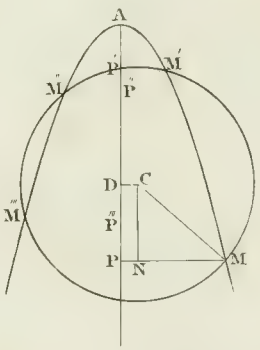

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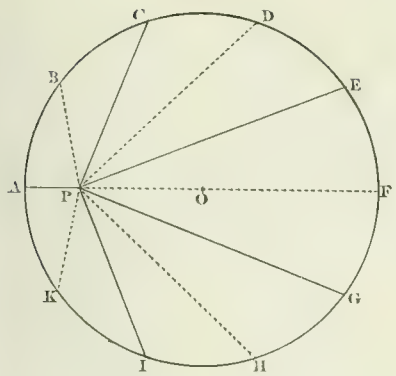
COTESIAN Theorem.

Fig. 21.



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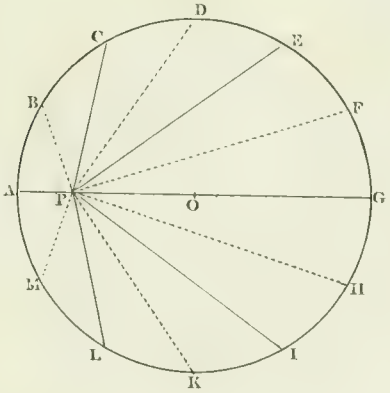
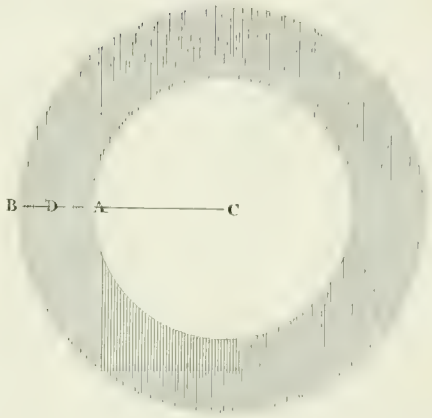


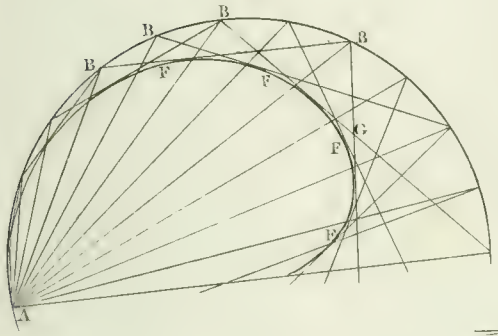
CROWN

Fig. 23.



CAUSTIC

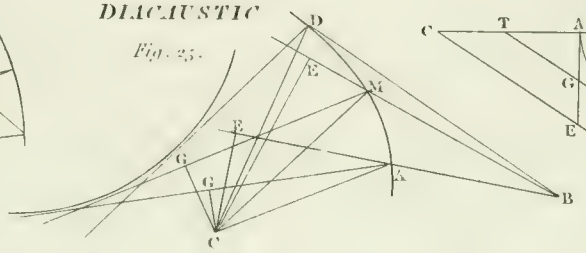
Fig. 24.



CURVE

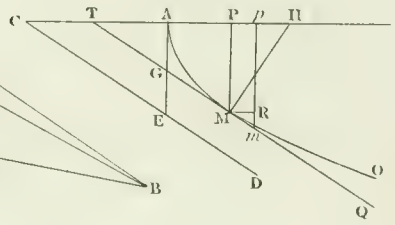
DIACAUSTIC

Fig. 25.



ELEMENT

Fig. 18.



CYLINDER.

See the Article referred to as in Geometry Plate IV.

Fig. 1.

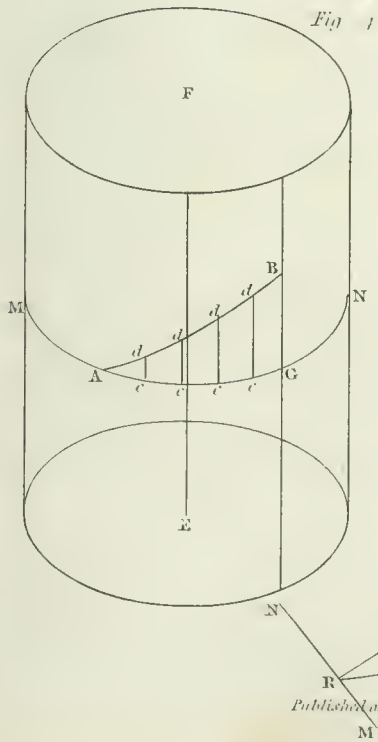
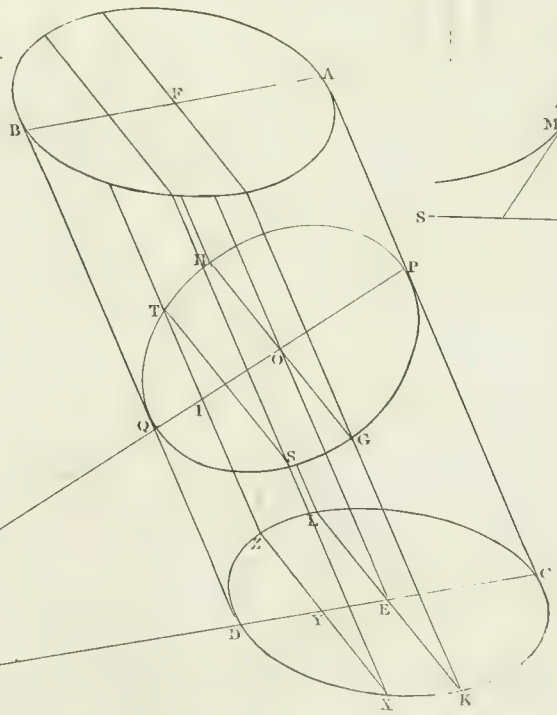


Fig. 3.



CURVE

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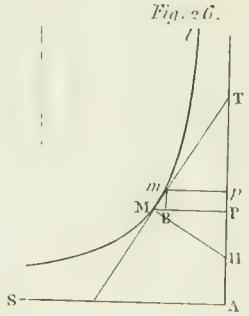

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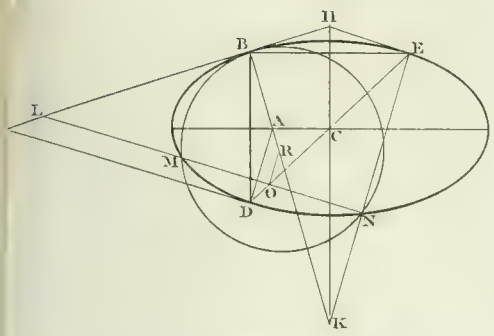
ANALYSIS.

CURVATURE.

Fig 1



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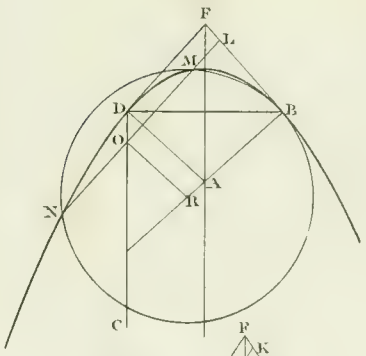

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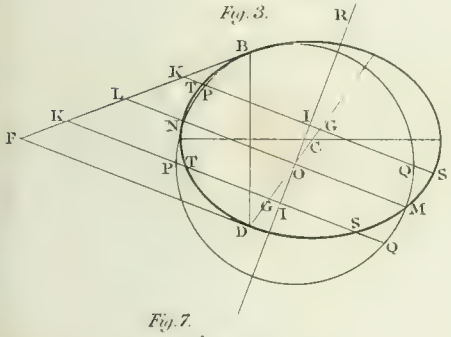

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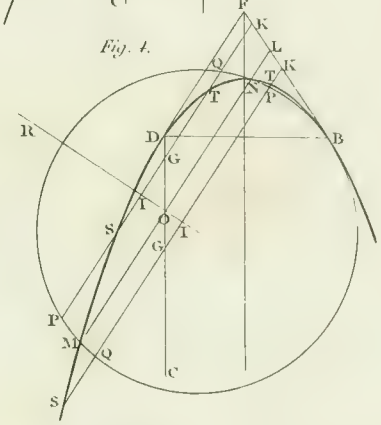

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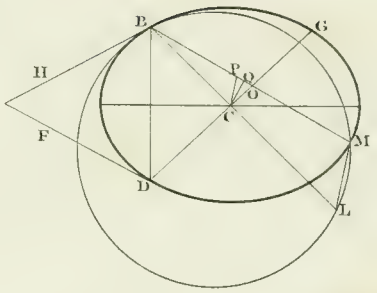
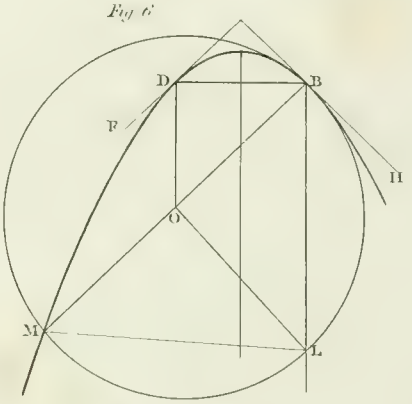


Fig 6



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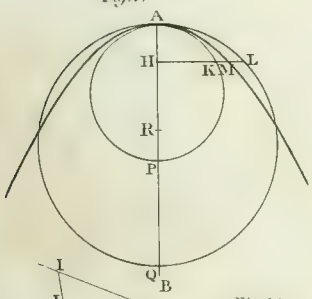

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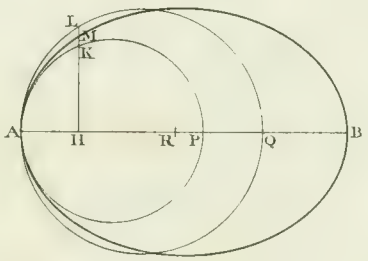

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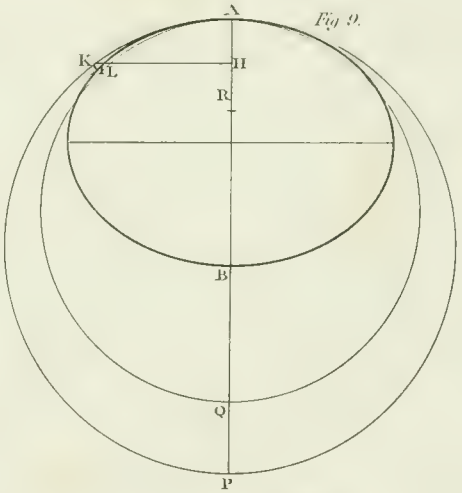

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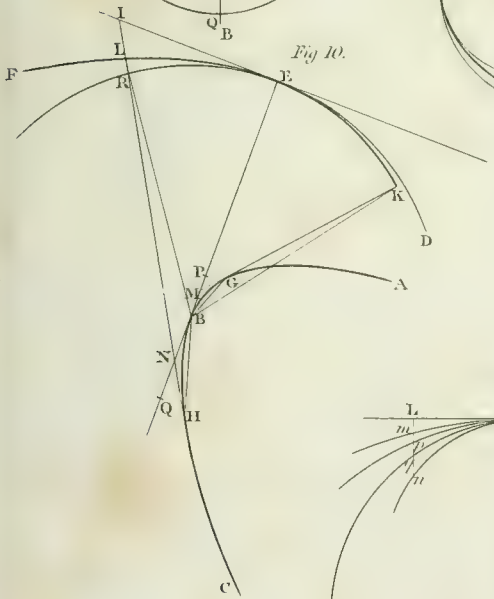

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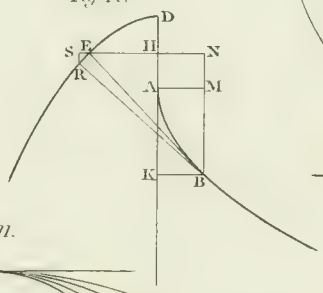

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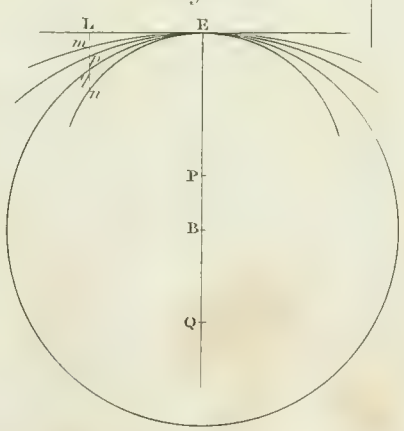

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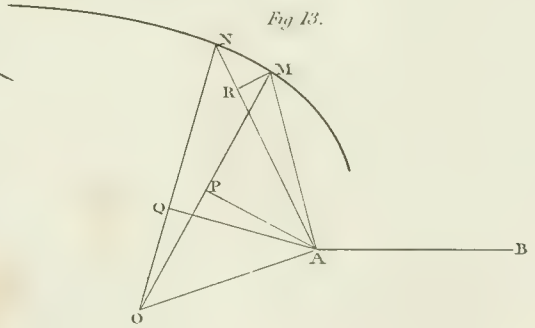

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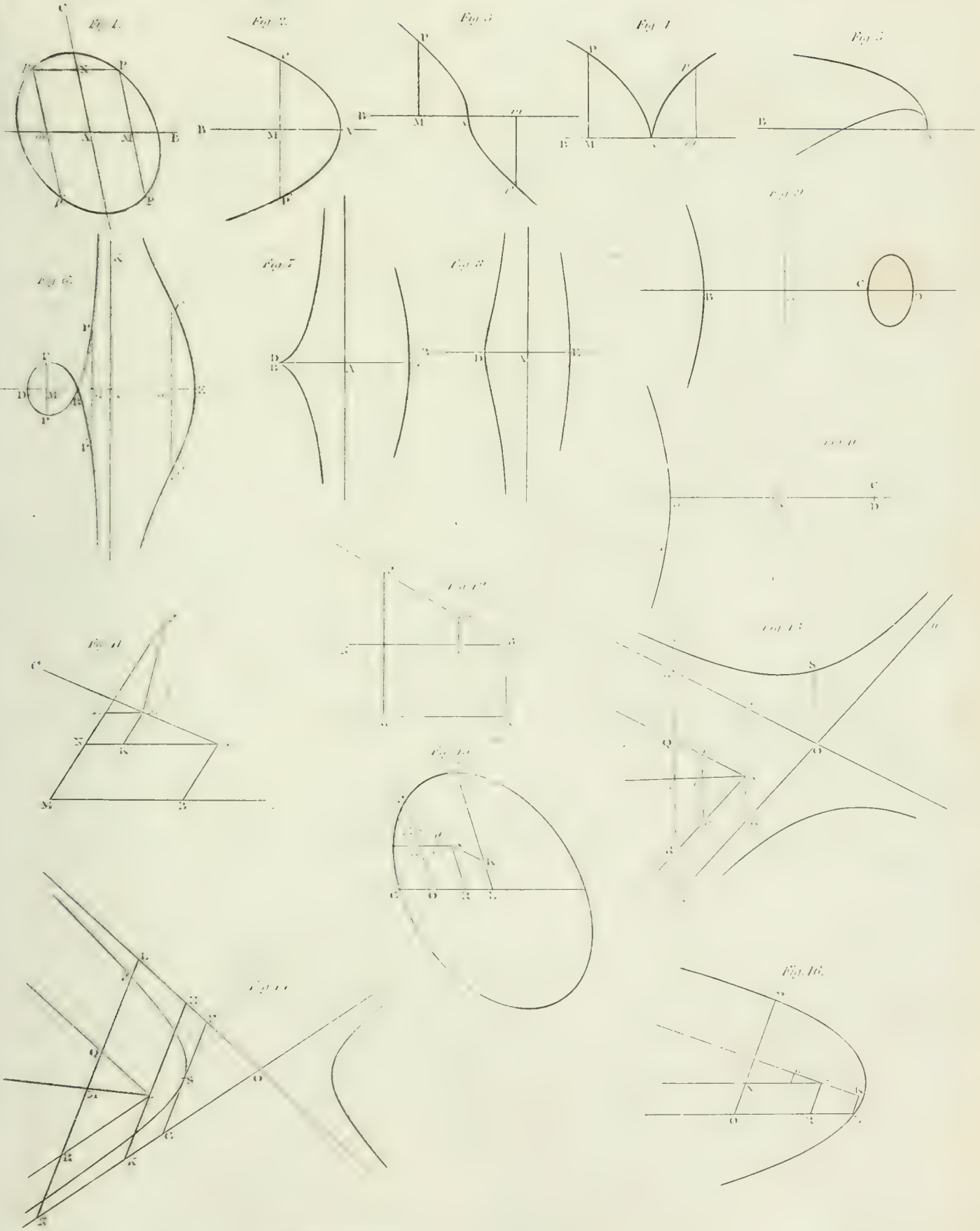

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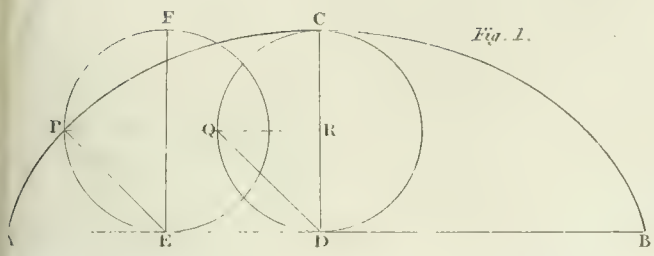
CYCLOID & EPICYCLOID.



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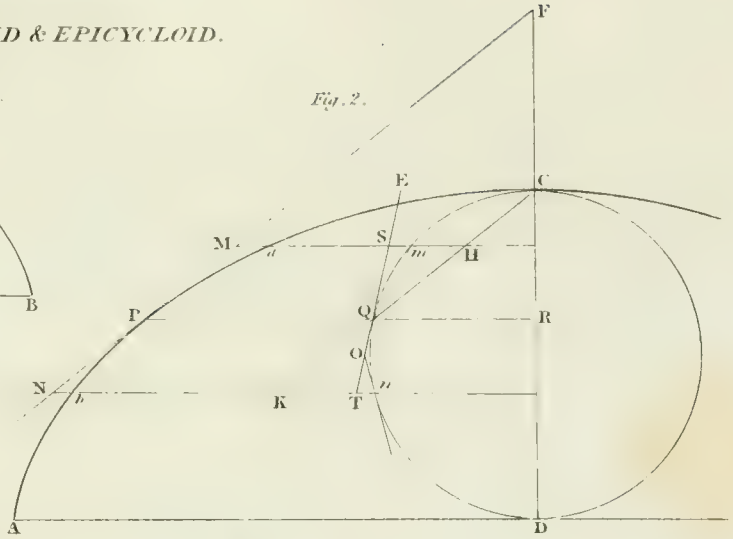

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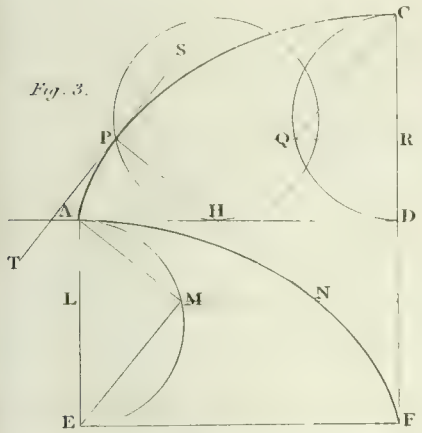

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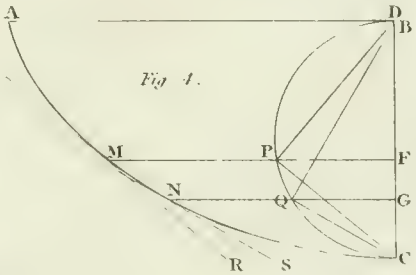

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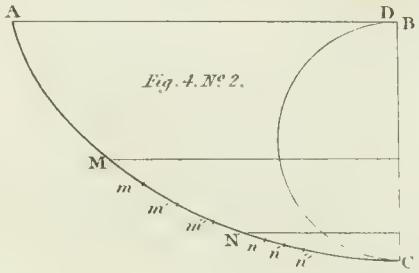

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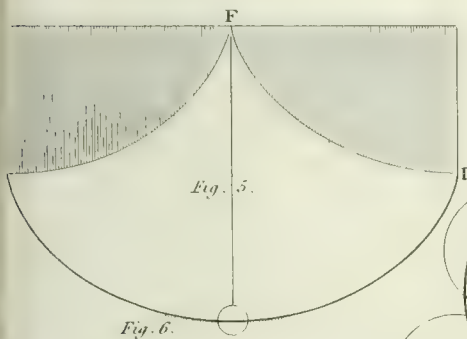

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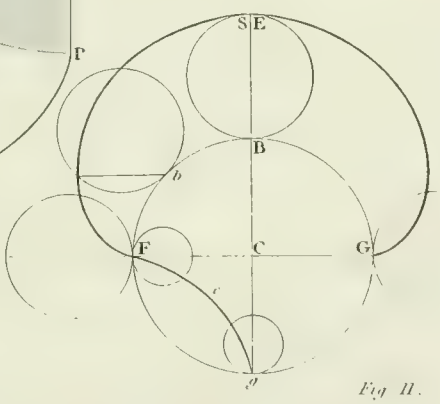

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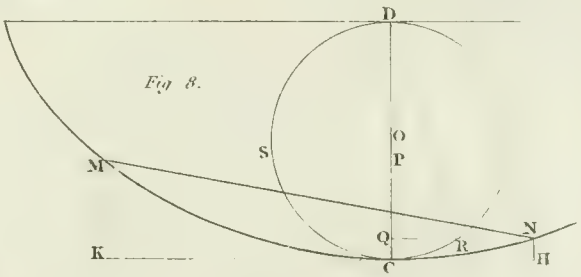

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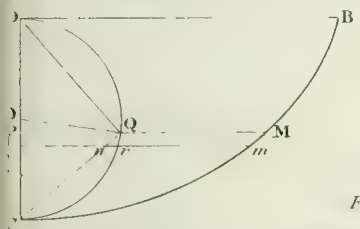


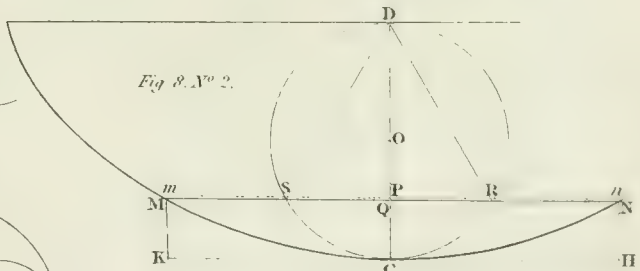
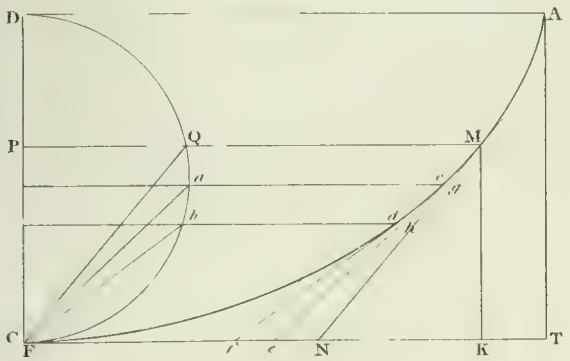


Fig 8. Nº 2.

Fig 7



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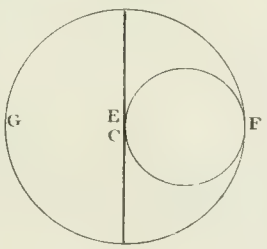

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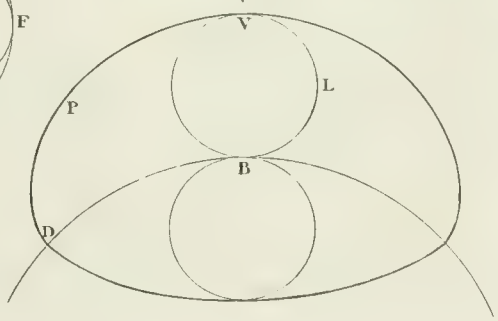

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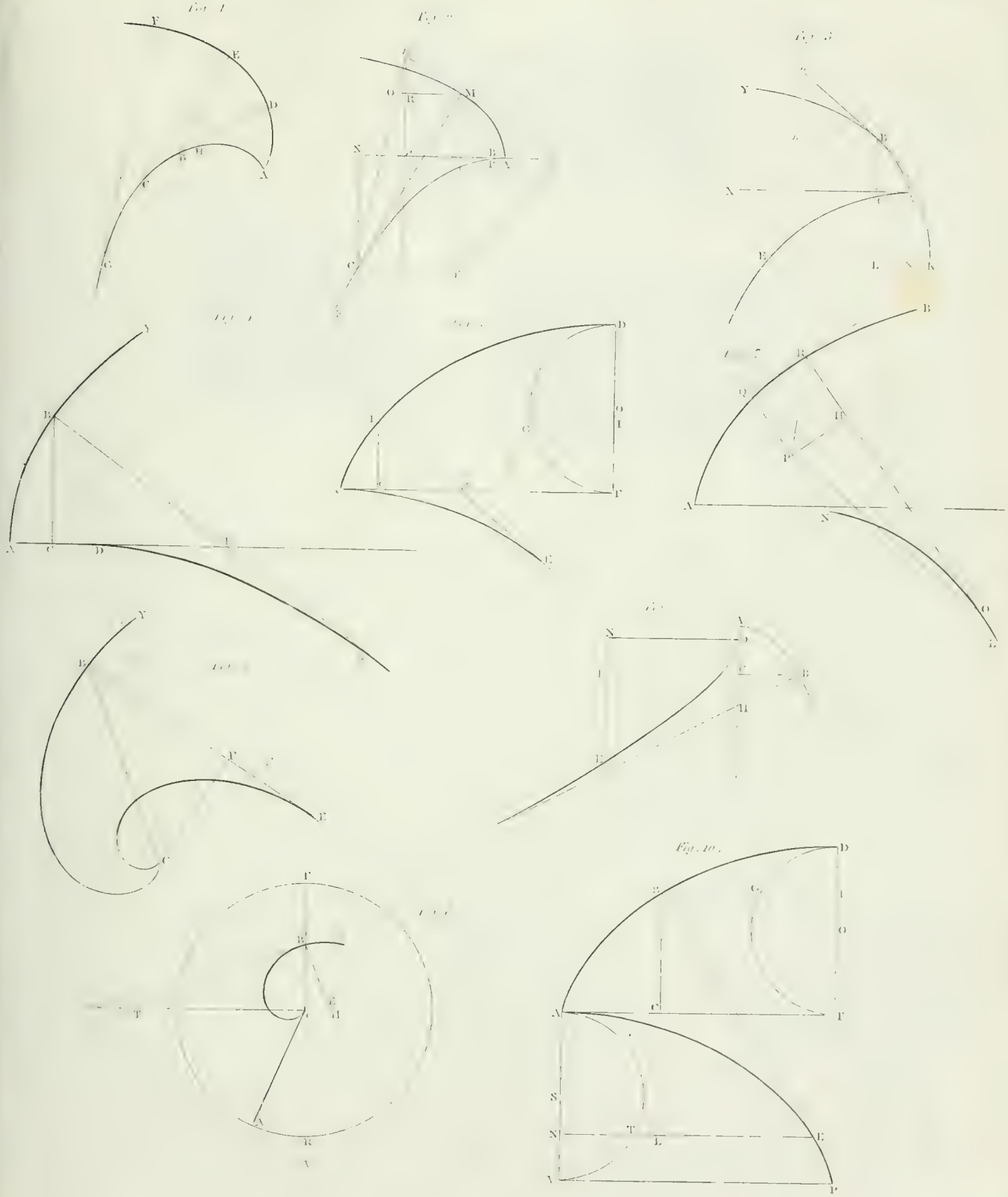
EVOLUTE.

PLATE V.



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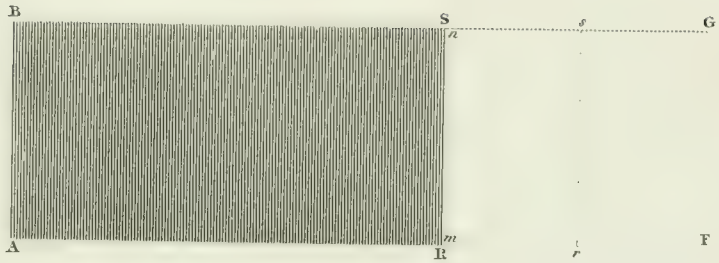
FLUXION.

Fig. 1.

Fig. 2.



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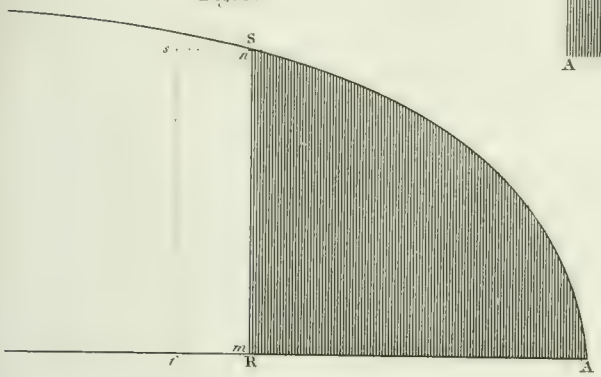

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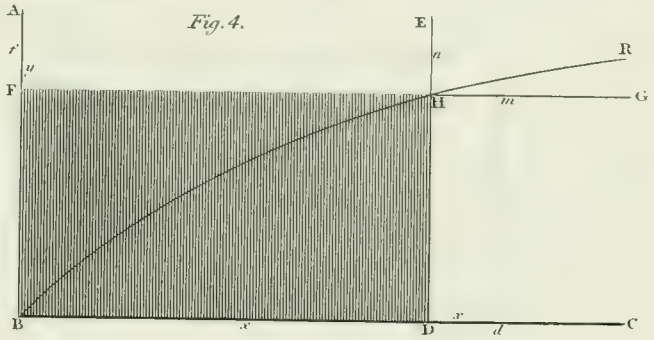


ANALYTIC FUNCTION.

Fig. 5.

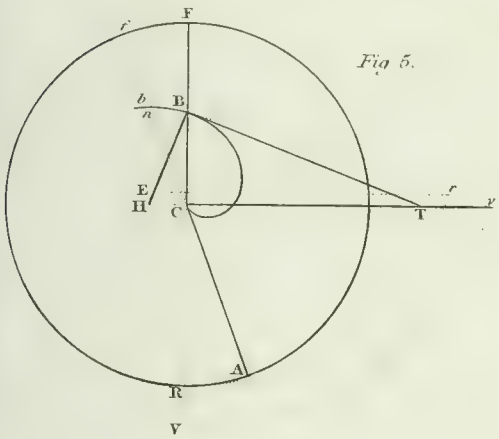
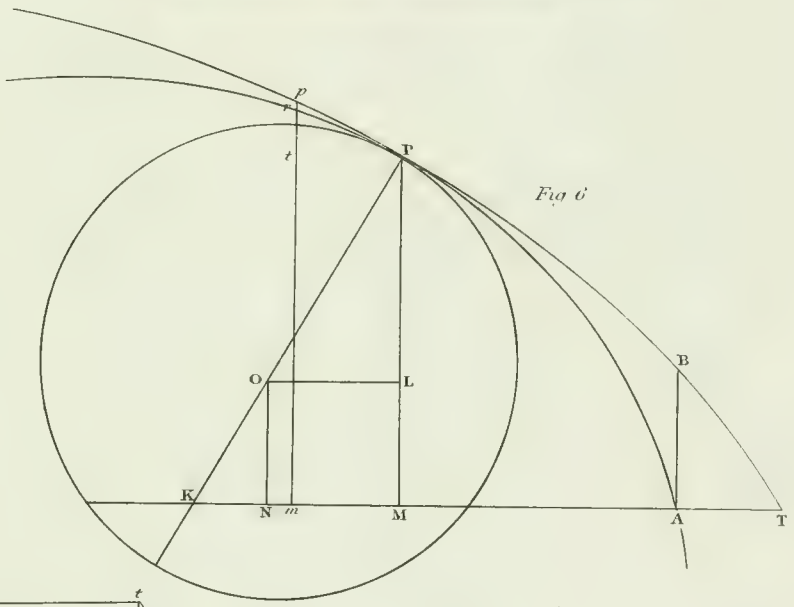


Fig. 6



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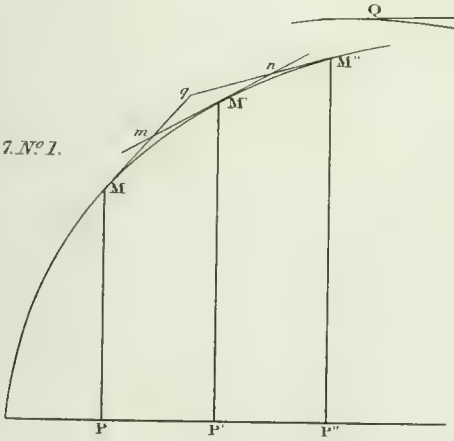

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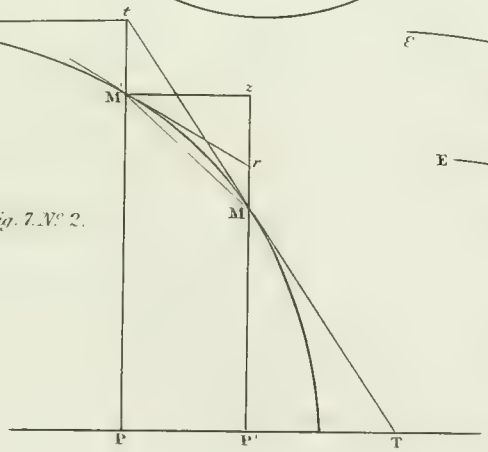

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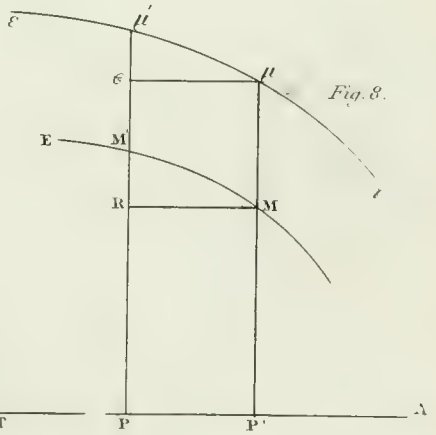

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ANALYTIC GEOMETRY.

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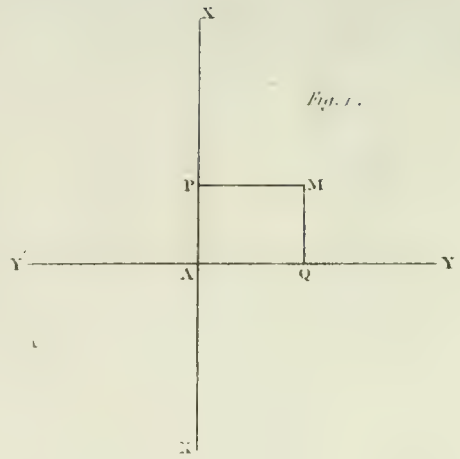

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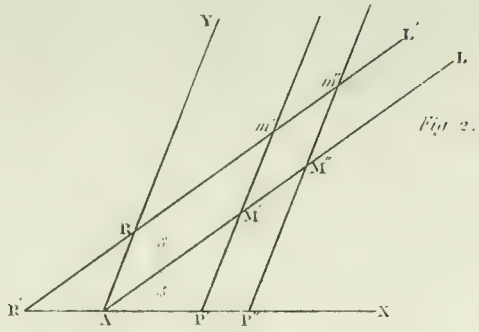

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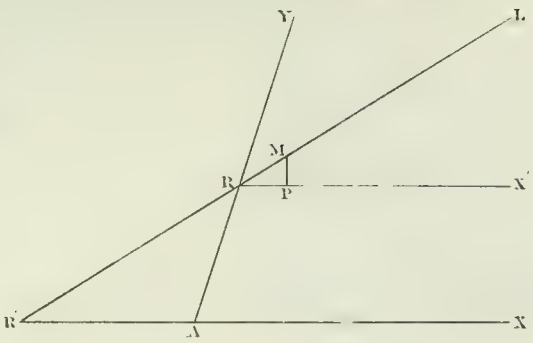
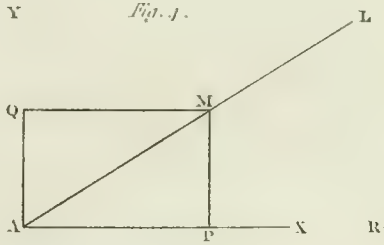


Fig. 4.



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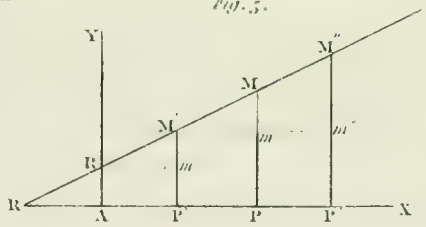

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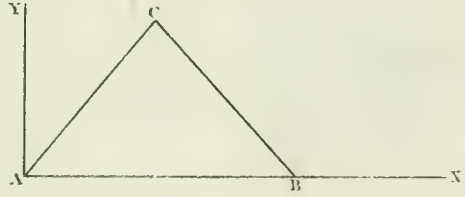

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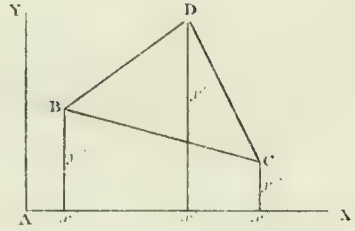

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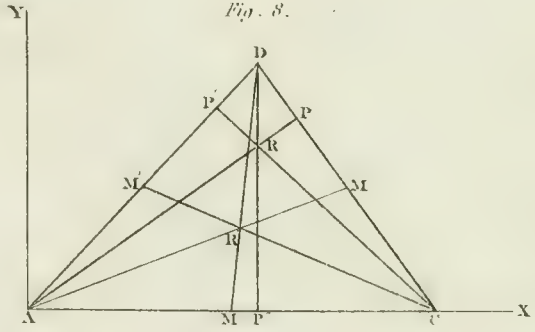

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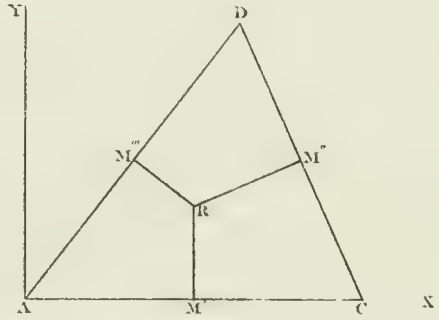

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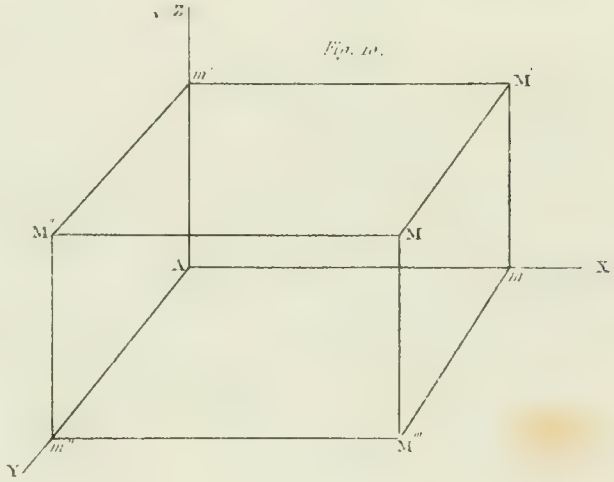

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GYRATION.

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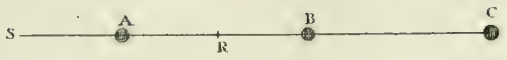

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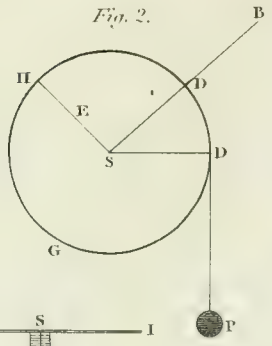

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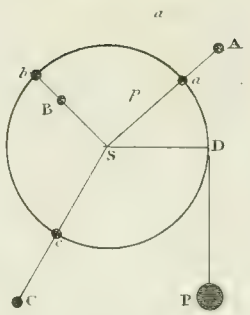

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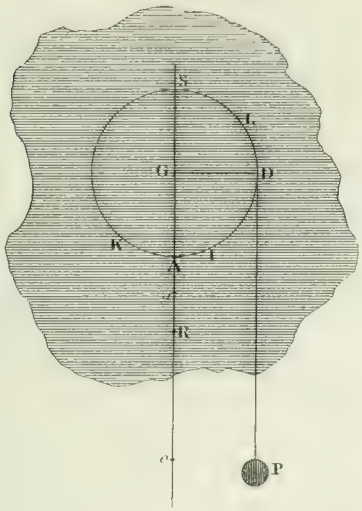

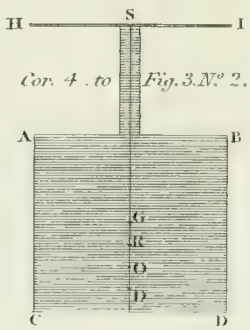

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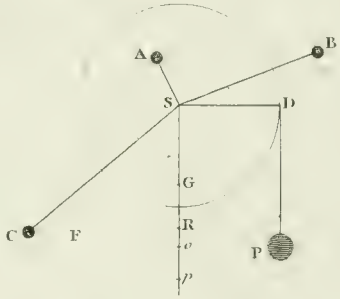

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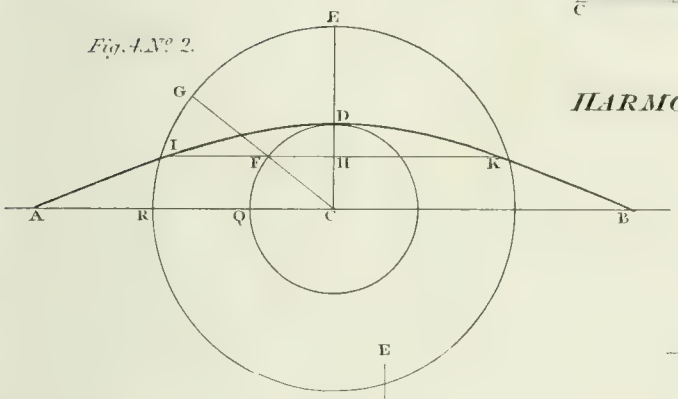

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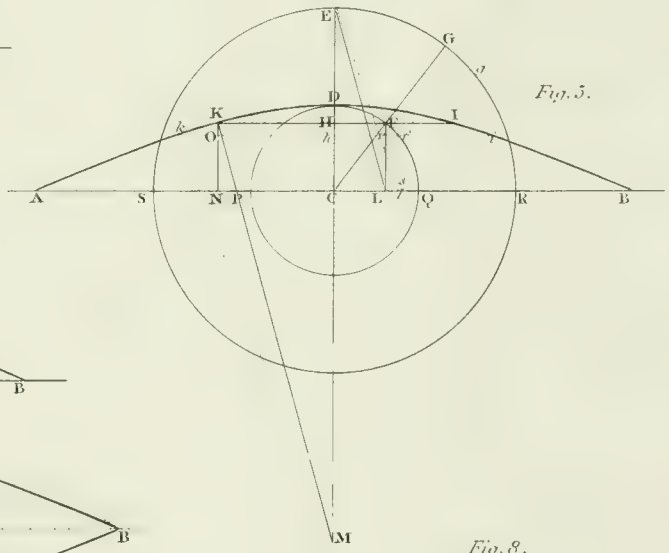
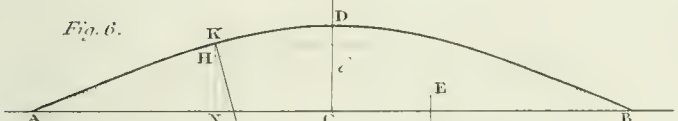


Fig. 5.

Fig. 6.



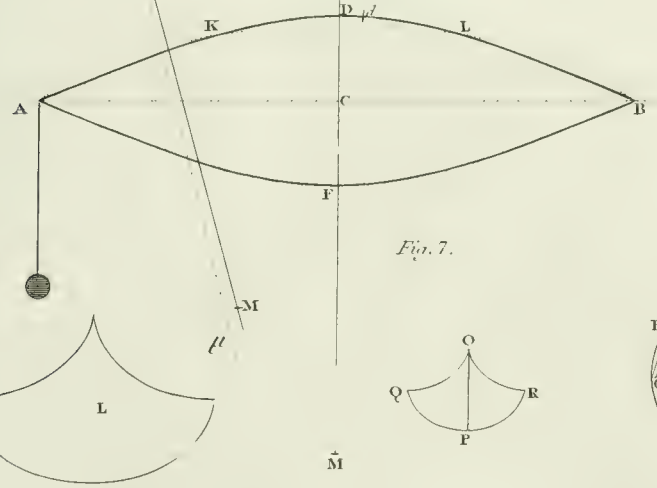


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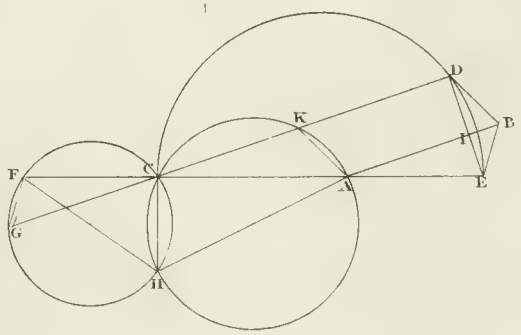
Fig. 8.



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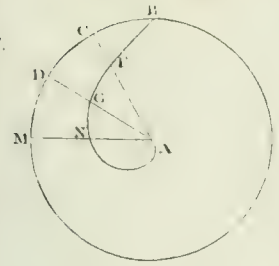

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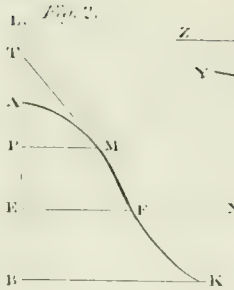

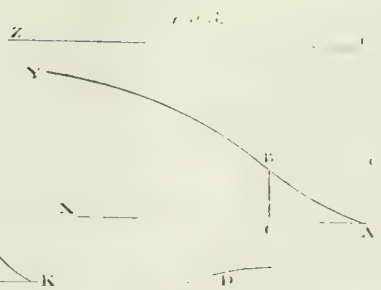

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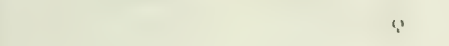
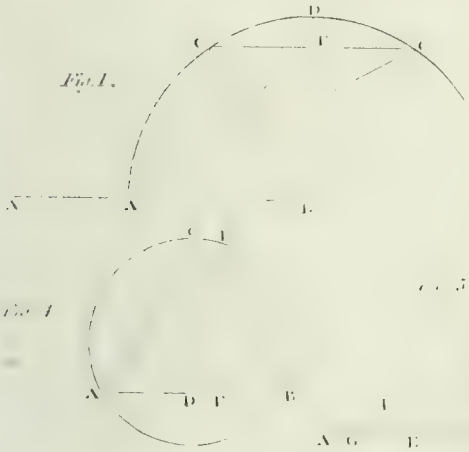


Fig. 6.

Fig. 7

ISOPERIMETRY.
PLATE IX.

Fig. 1.



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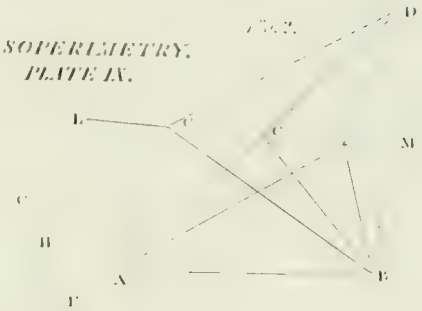

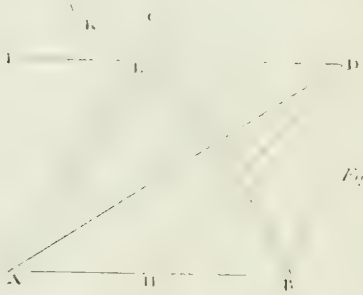

Fig. 3.

Fig. 4

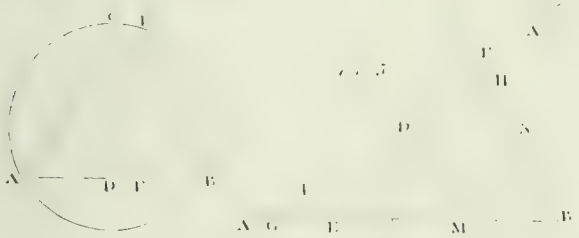

Fig. 5

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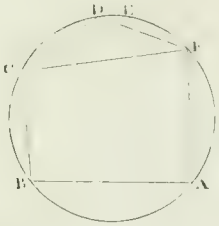

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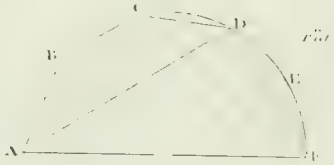

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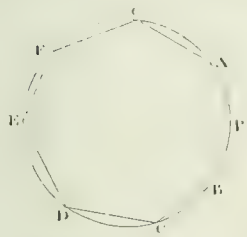

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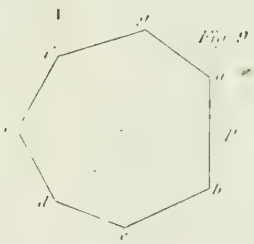

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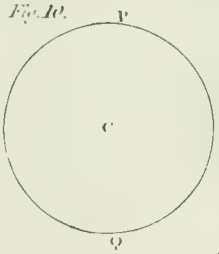

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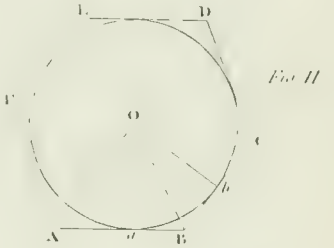
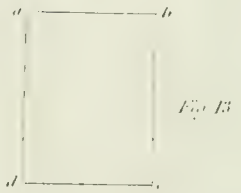


Fig. 12.

Fig. 13



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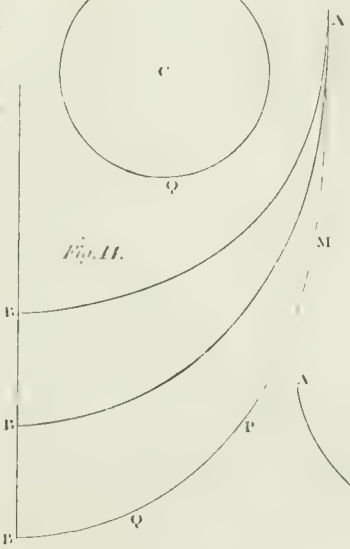

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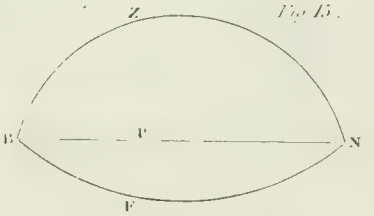

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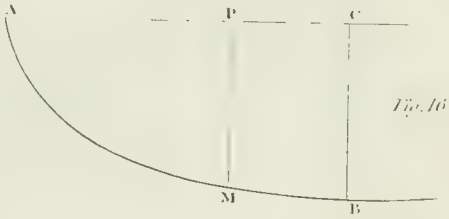

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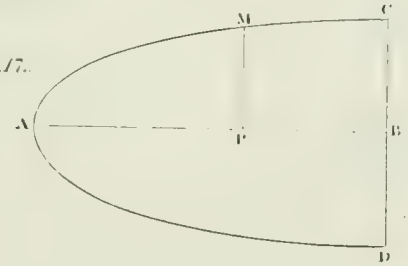

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Lowry sculp.

Fig. 1.
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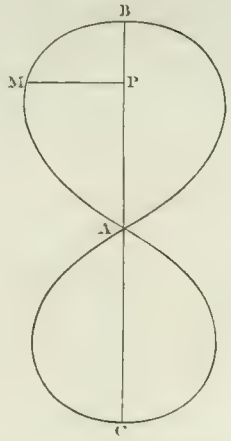

Fig. 2.
Atmospherical LOGARITHMIC.

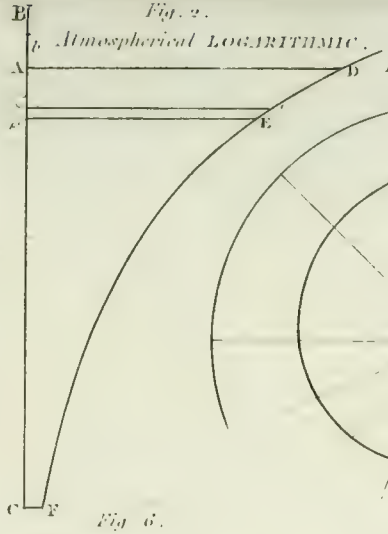

Fig. 6.

Fig. 5.
LOGISTIC SPIRAL.

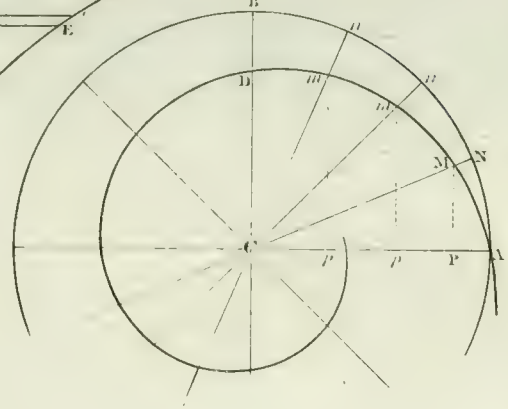

Fig. 4.
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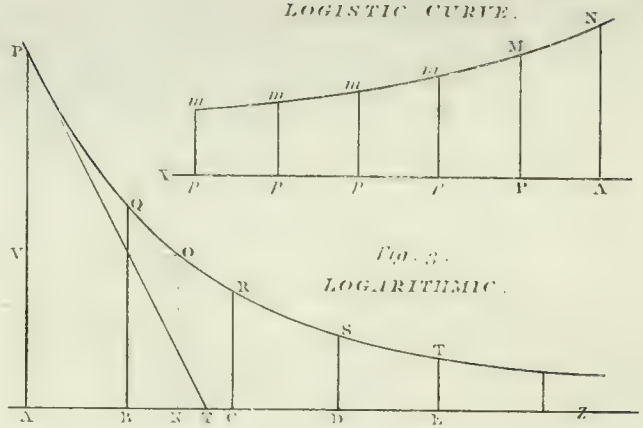


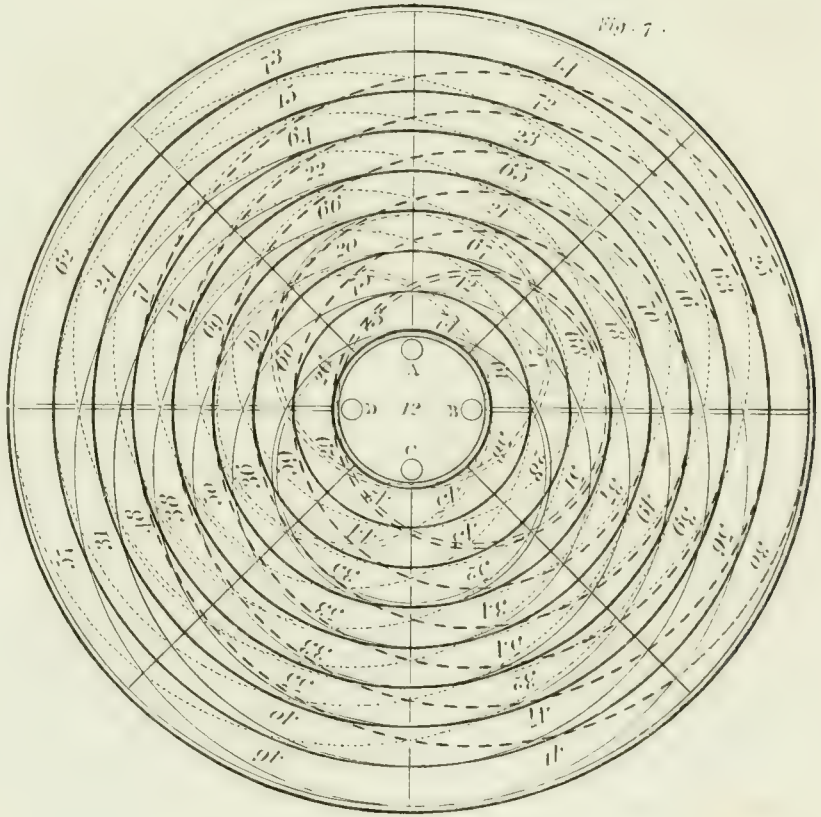
Fig. 3.
LOGARITHMIC.

MAGIC Square of Squares.

200	217	232	249	8	25	40	57	72	89	104	121	136	153	168	184
58	39	26	7	250	231	218	199	186	167	154	135	122	103	90	71
198	219	230	251	6	27	38	59	70	91	102	123	134	155	166	187
60	37	28	5	252	229	220	197	188	165	156	133	124	101	92	69
201	216	233	248	9	24	41	56	73	88	105	120	137	152	169	184
55	42	23	10	247	234	215	202	183	170	151	138	119	106	87	74
203	214	235	246	11	22	43	54	75	86	107	118	139	150	171	182
53	44	21	12	245	236	213	204	181	172	149	140	117	108	85	76
205	212	237	244	13	20	45	52	77	84	109	116	141	148	173	180
51	46	19	14	243	238	211	206	179	174	147	142	115	110	83	78
207	210	239	242	15	18	47	50	79	82	111	114	143	146	175	178
49	48	17	16	241	240	209	208	177	176	145	144	113	112	81	80
136	121	168	153	4	29	36	61	68	93	100	125	132	157	164	189
62	35	30	3	254	227	222	195	190	163	158	131	126	99	94	67
194	223	226	255	2	31	34	63	66	95	98	127	130	159	162	191
64	33	32	1	256	225	224	193	192	161	160	129	128	97	96	65

MAGIC Circle of Circles.

Fig. 7.



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LOCUS.

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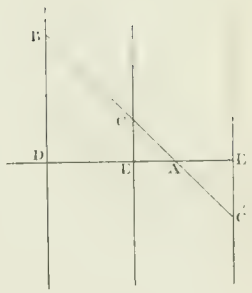

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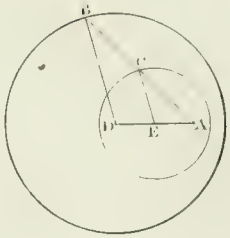

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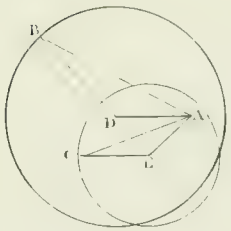

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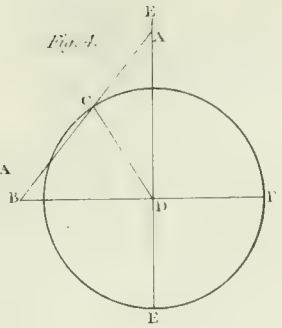

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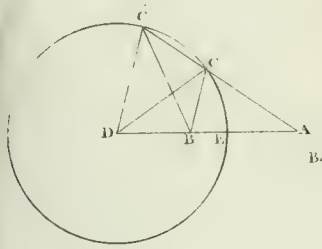

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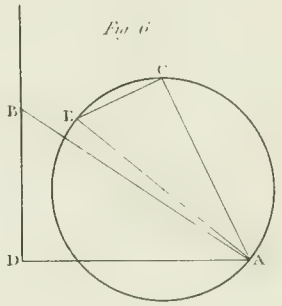

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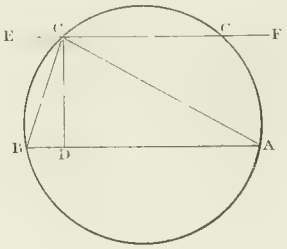
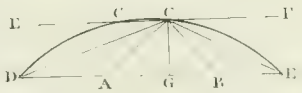


Fig. 8.



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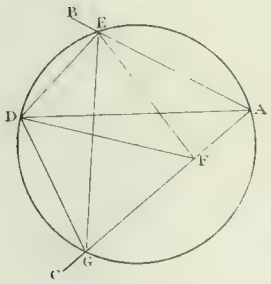

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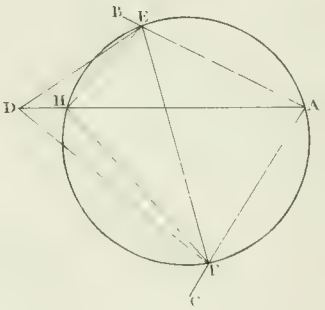

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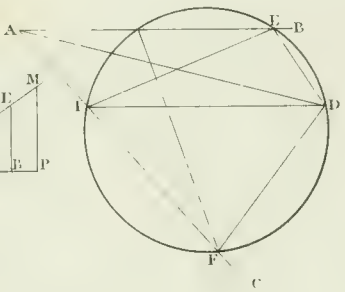

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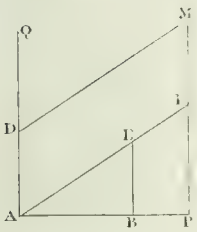

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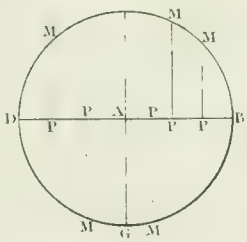

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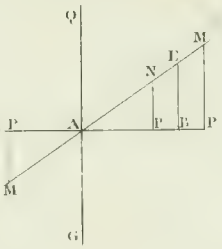

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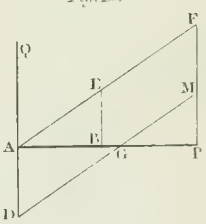

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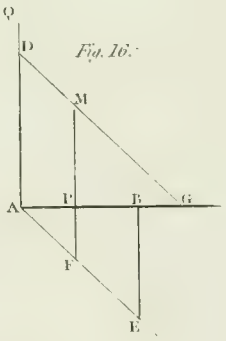

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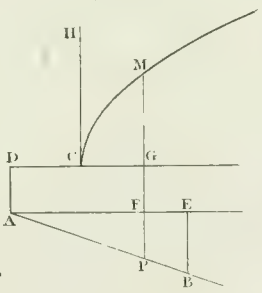

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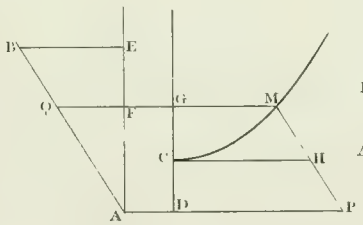

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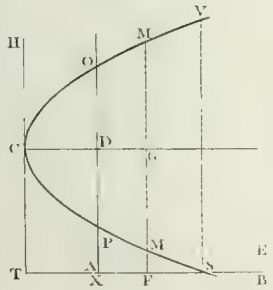

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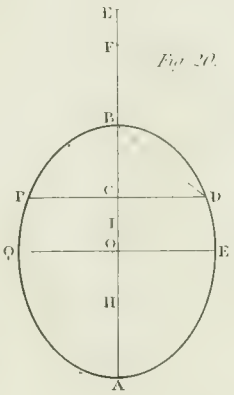

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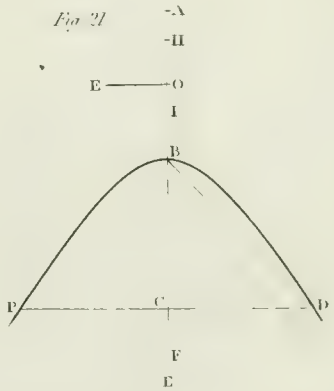

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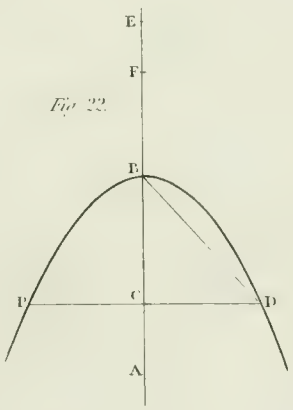

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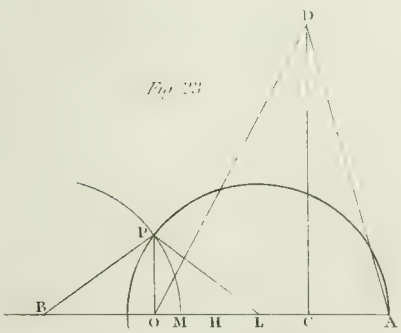

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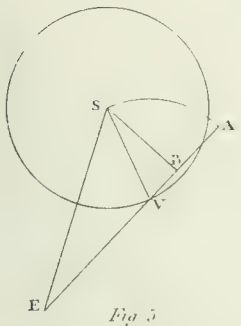
Lowry sculp.

Fig. 1. MAXIMA and MINIMA.



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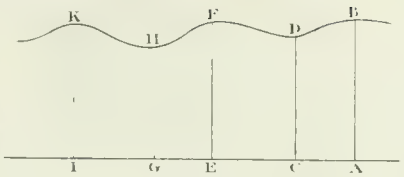


PARABOLIC Caneus.

Fig. 3

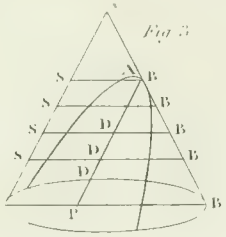
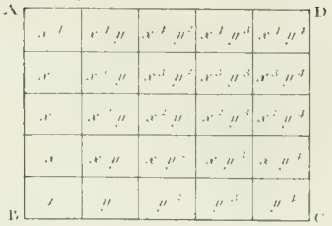


Fig. 4.

Analytic PARALLELOGRAM.



QUADRATIC Equation.

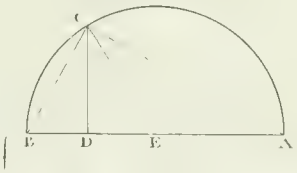
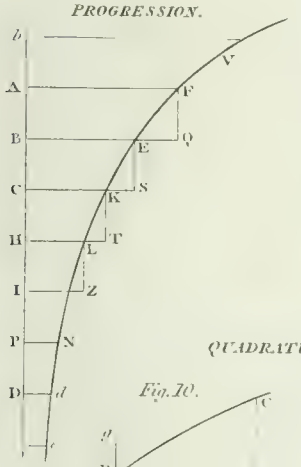


Fig. 5

PROGRESSION.



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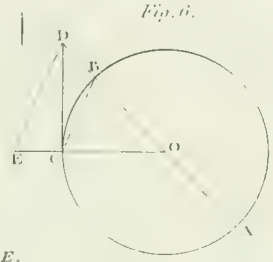

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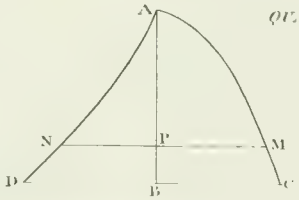
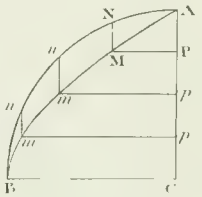


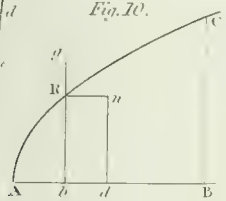
QUADRATRIX.

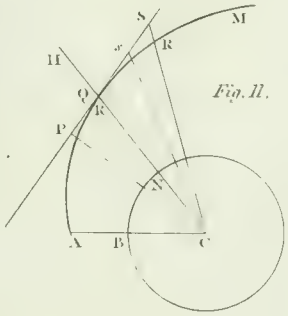
Fig. 9



QUADRATURE.

Fig. 10.





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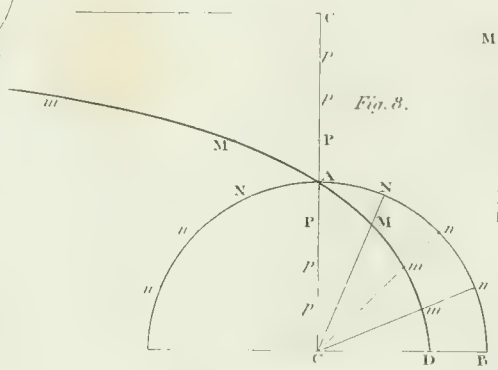
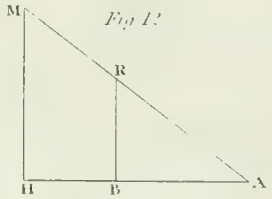


Fig. 8.

Fig. 12



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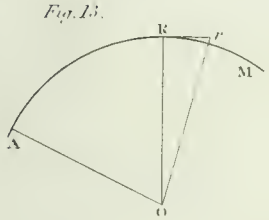

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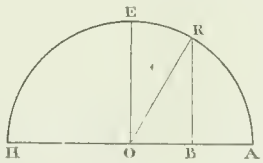

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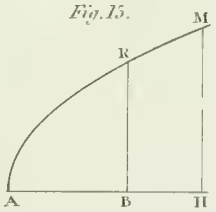

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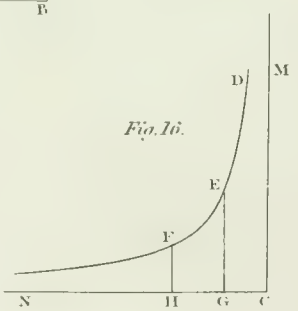


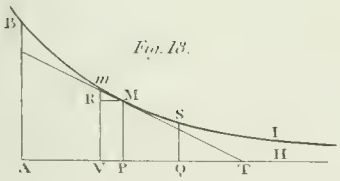
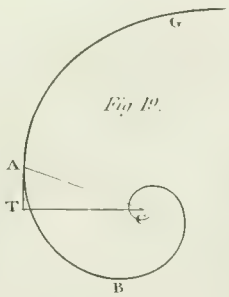


Fig. 18.

Fig. 19.



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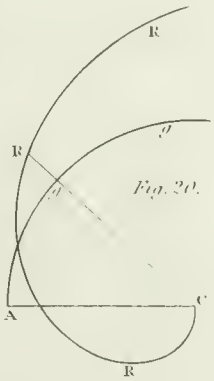

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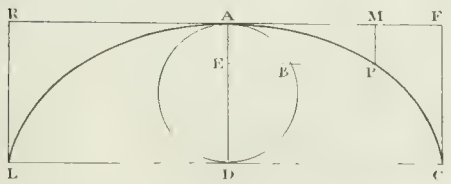

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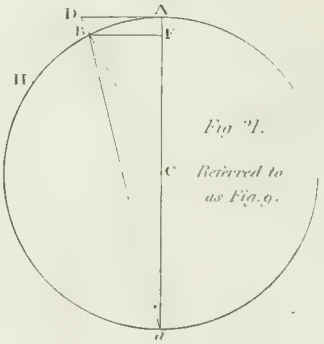

Fig 21.

Referred to as Fig. 9.

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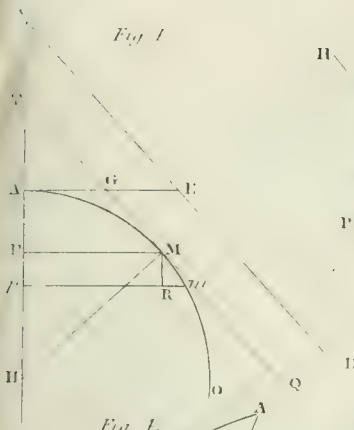
Lowry sculp.

ANALYSIS.

RECTIFICATION.

Fig. 1



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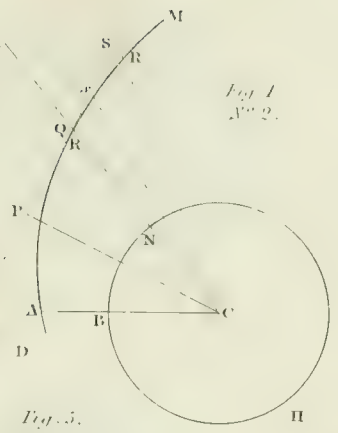

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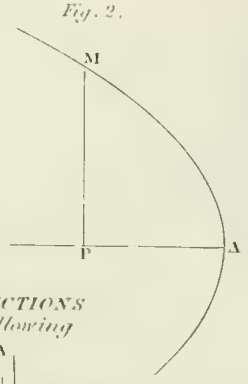

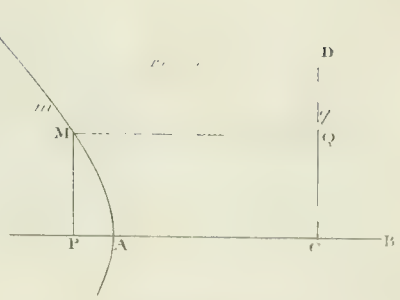

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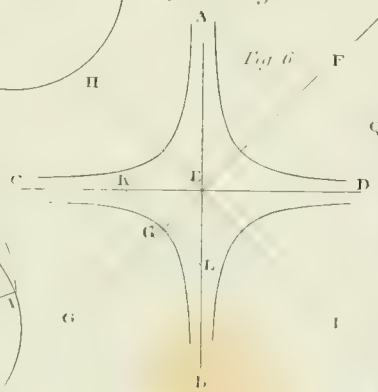
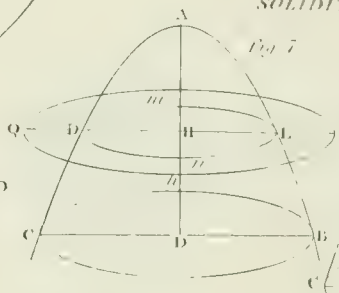


SOLIDITY

Fig. 7



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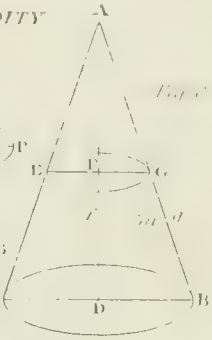

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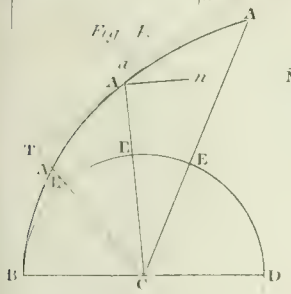

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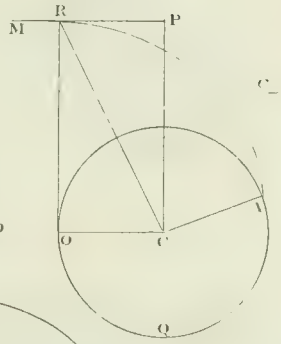
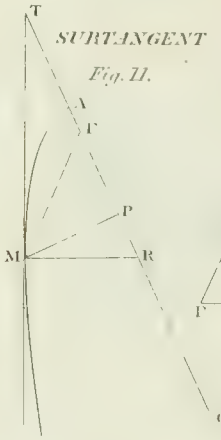


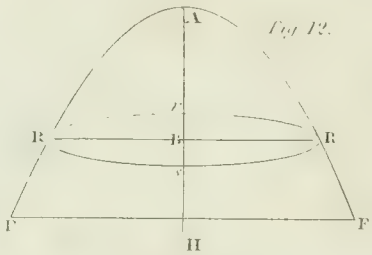
SURTANGENT

Fig. 11.



SUPERFICIES

Fig. 12.



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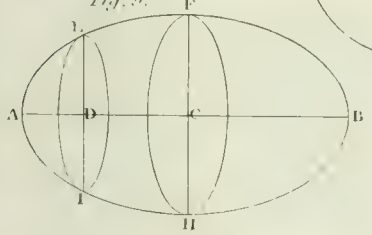

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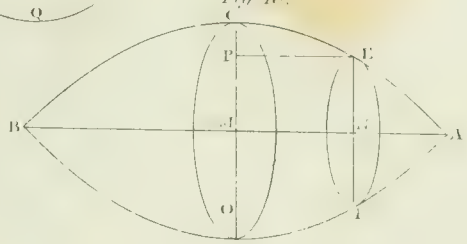

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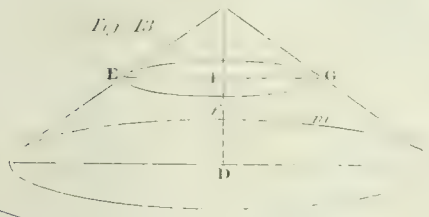

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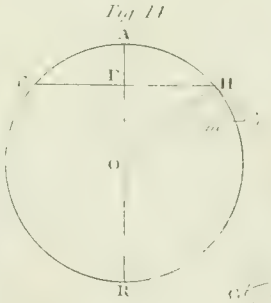

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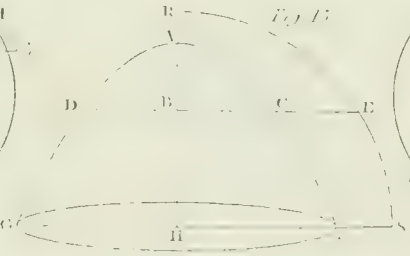


TANGENT

Fig. 16

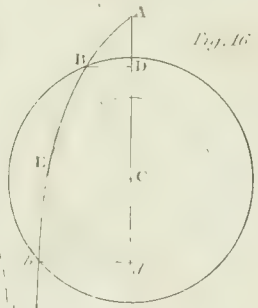


Fig. 17

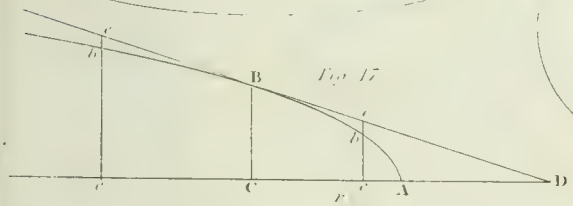


Fig. 18.

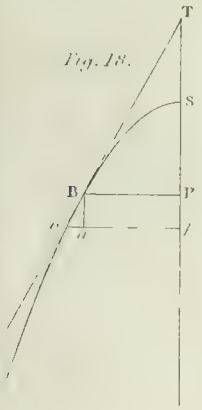


Fig. 19.

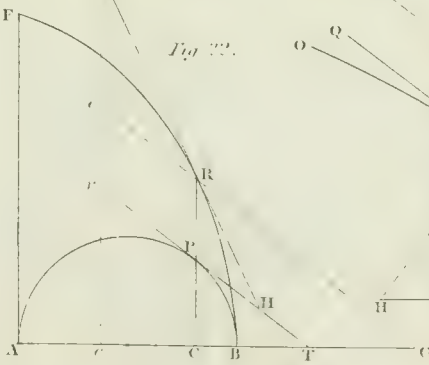


Fig. 20

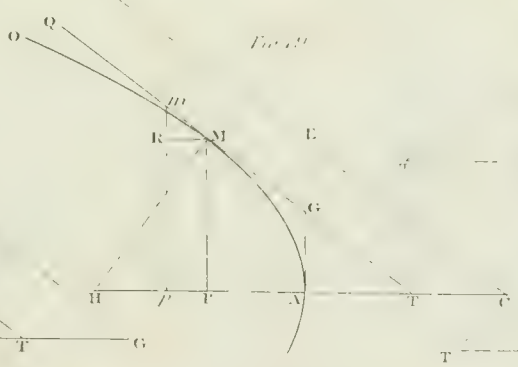
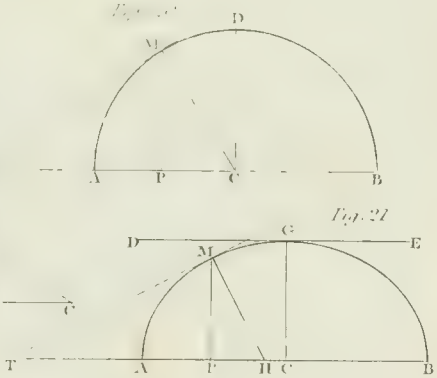


Fig. 21



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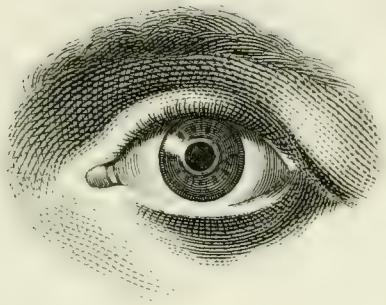
ANATOMY.

Organs of Sense.

Eye.

FIG. I.



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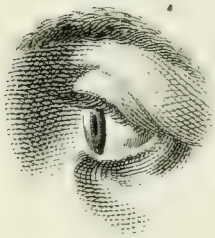

III

IV

V

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ANATOMY.

Organs of Sense.

Eye

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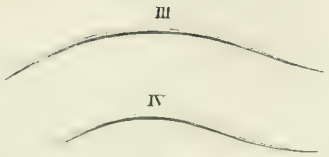


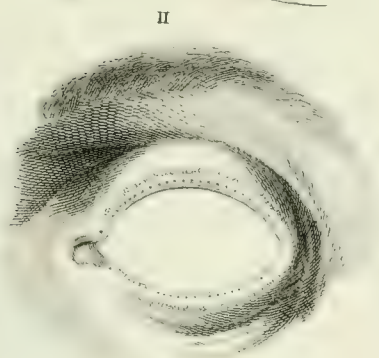
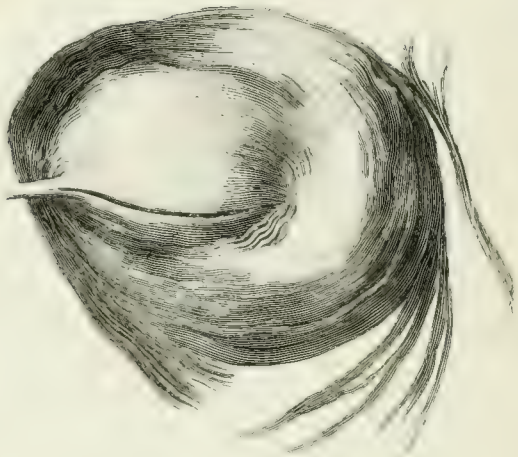
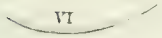
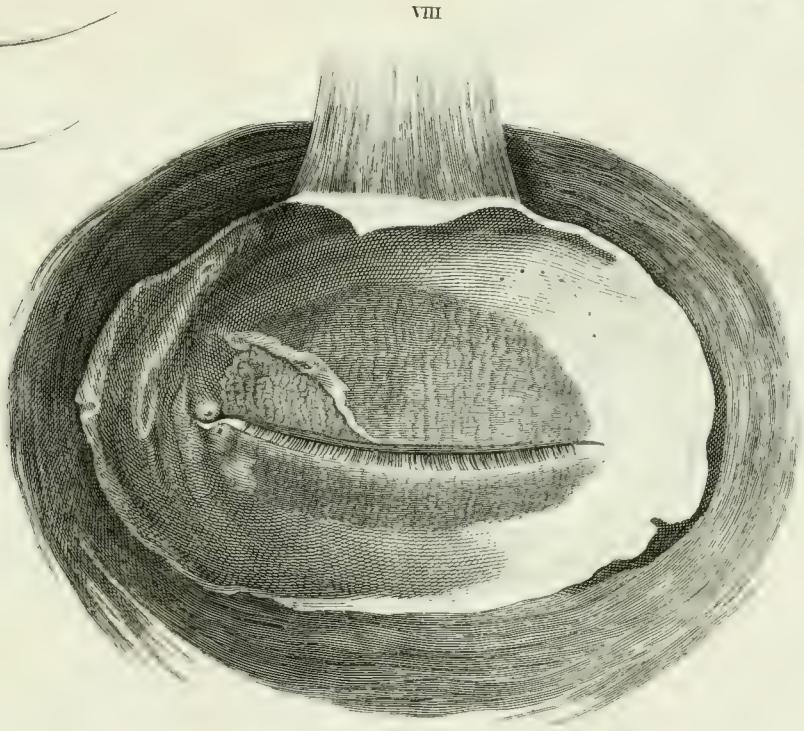
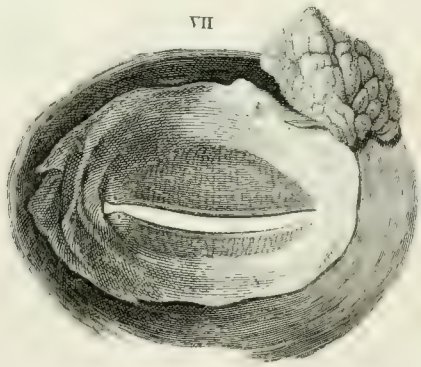


FIG. 1.









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ANATOMY.

Organs of Sense.

Eye.

III

IV

II

FIG. I.

VI

V

VIII

IX

X

XI

VII

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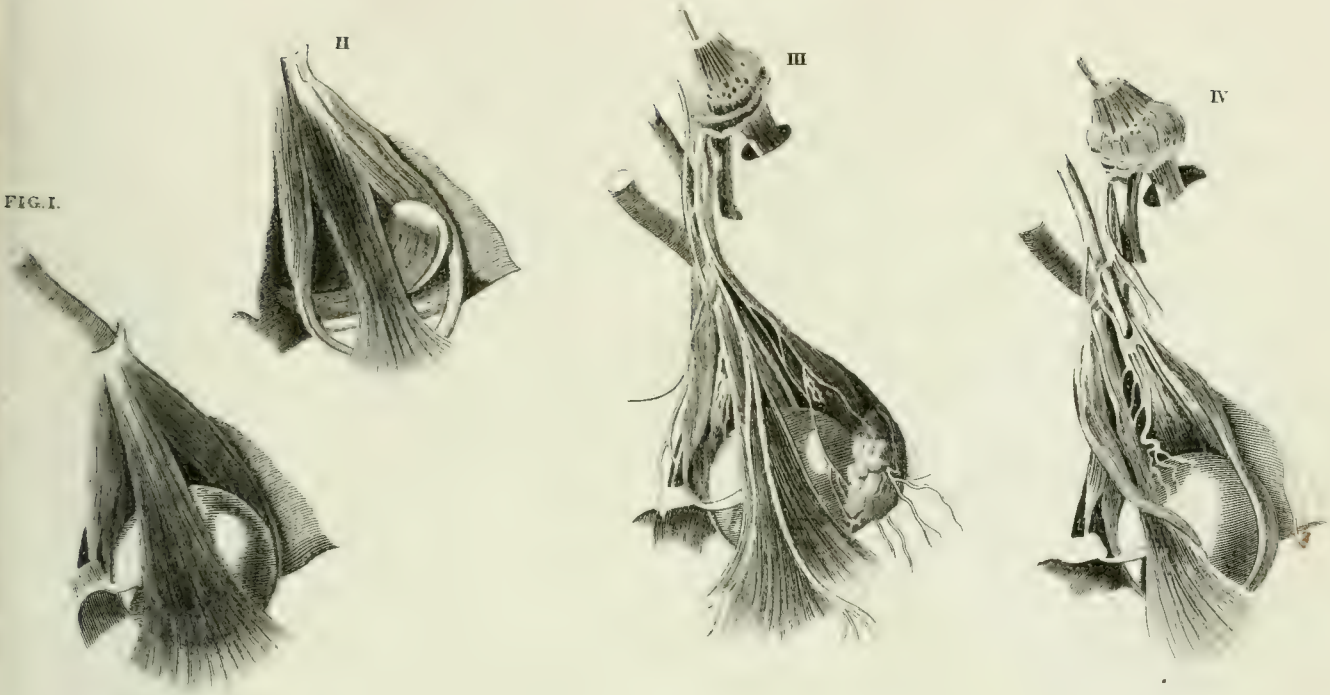
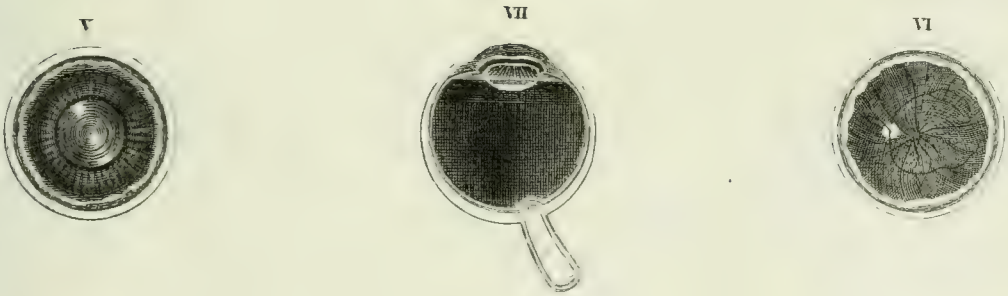
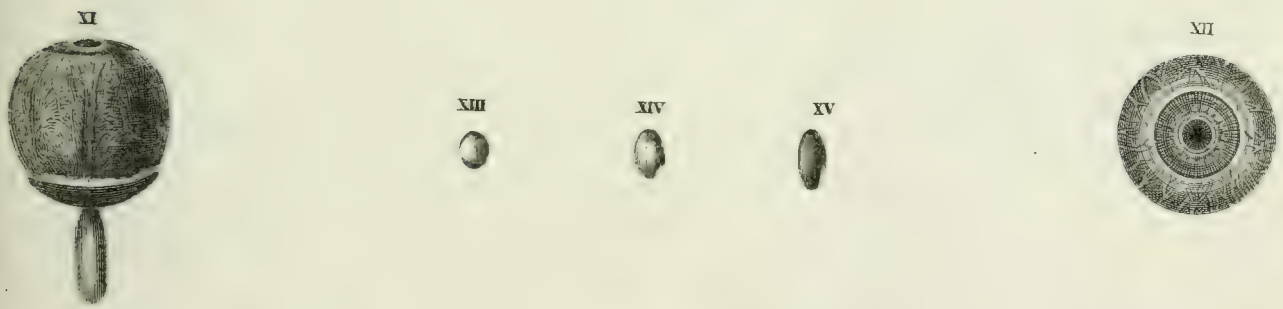
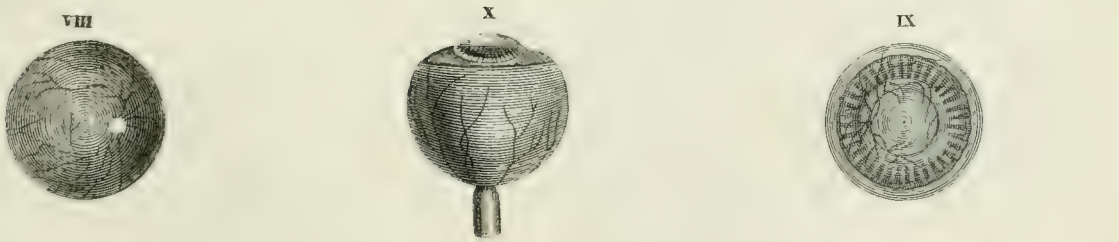
Milton sc.

FIG. I.









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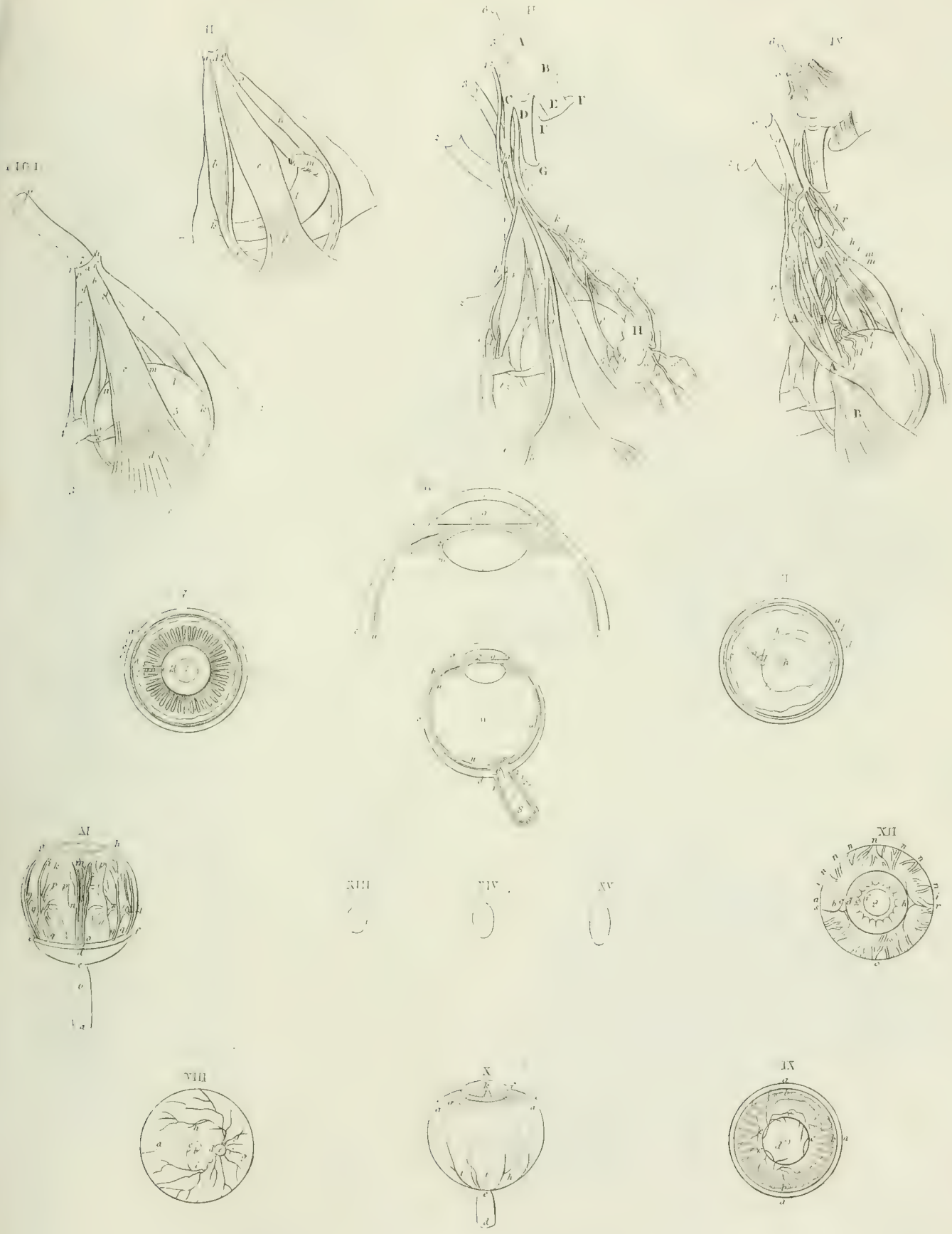
Milton fc



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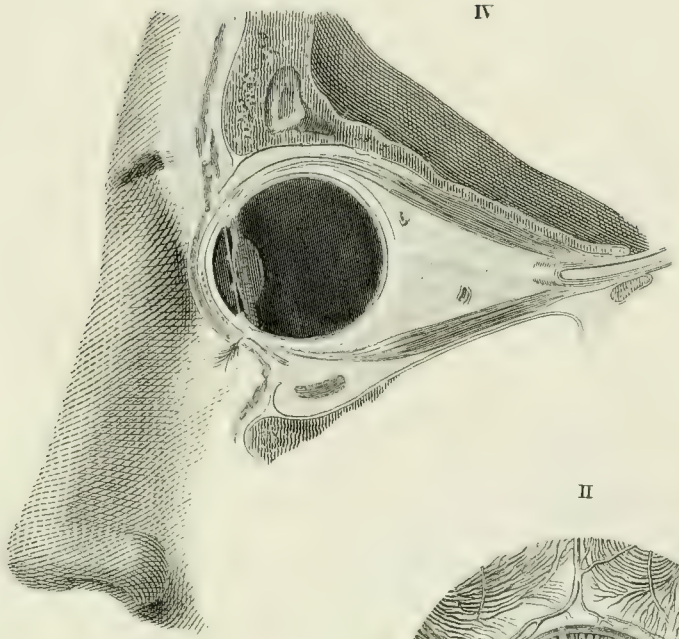
ANATOMY.

Organs of Sense.

Eye

FIG. I.

IV



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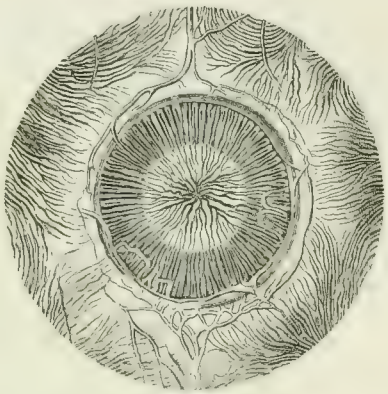
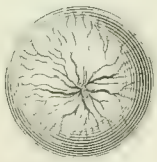


II

III

III



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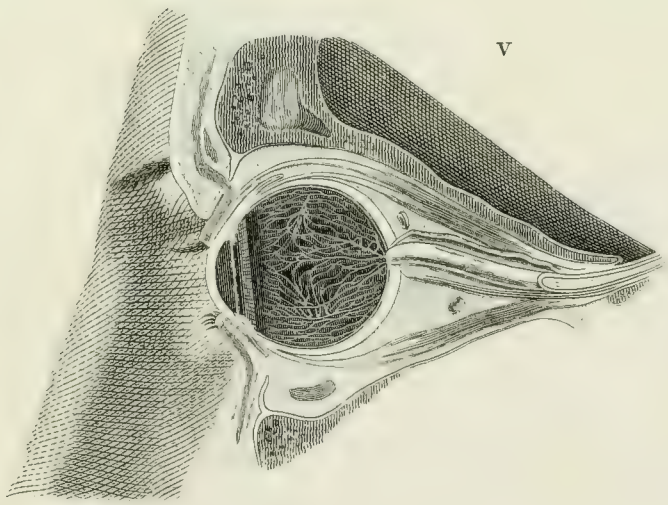

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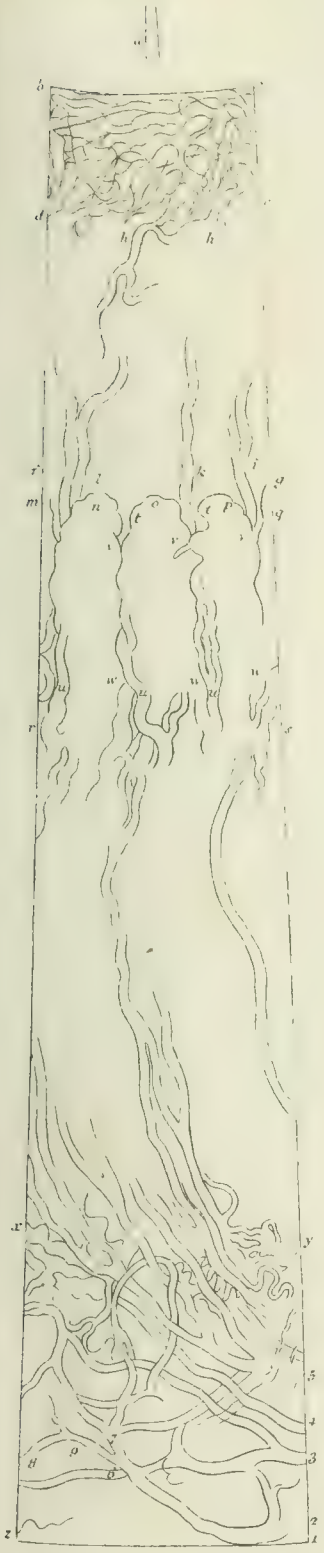
Milton sc.

Organs of Sense.

Eye.

FIG. I.



IV

II

VI

III

V

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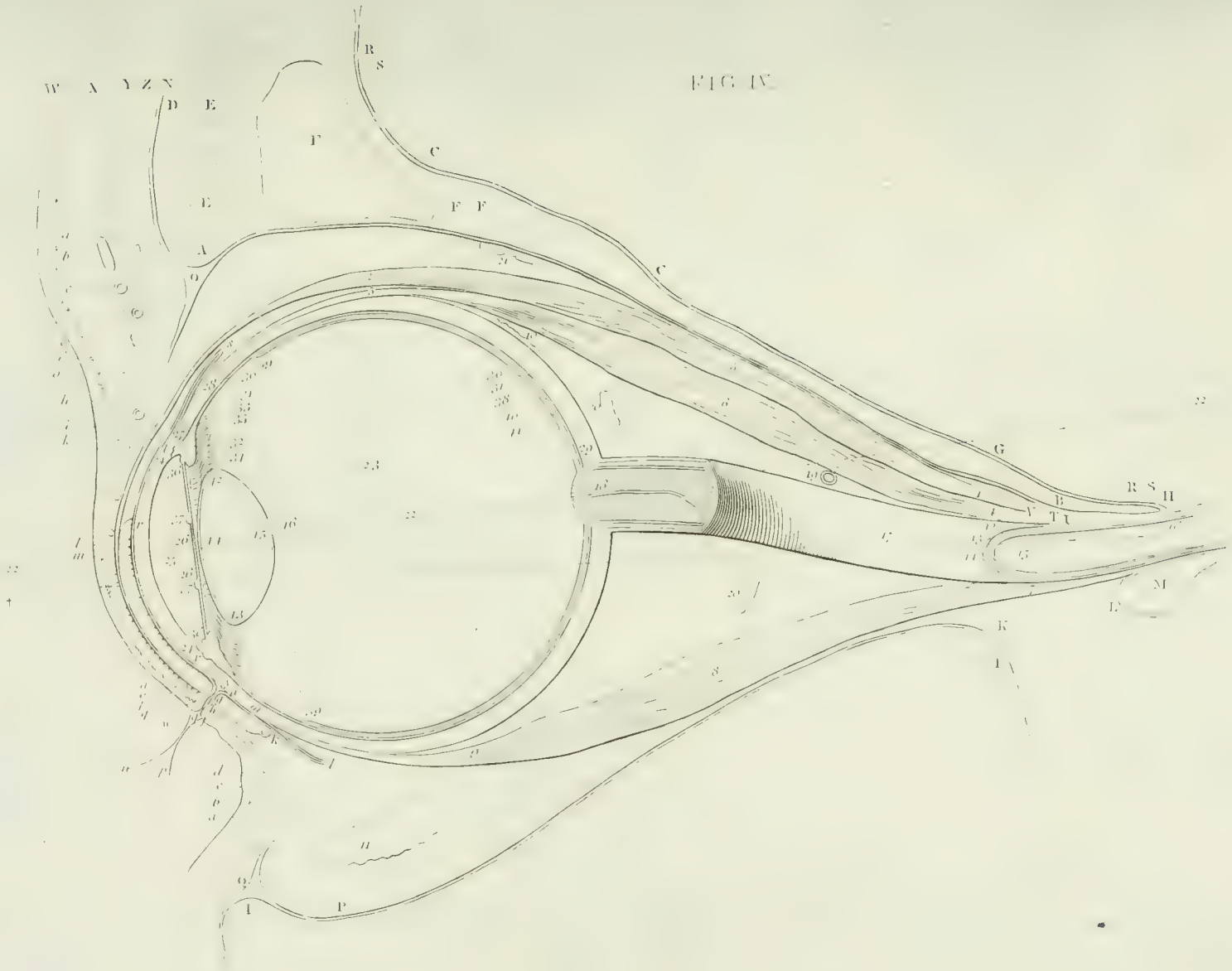
FIG IV.

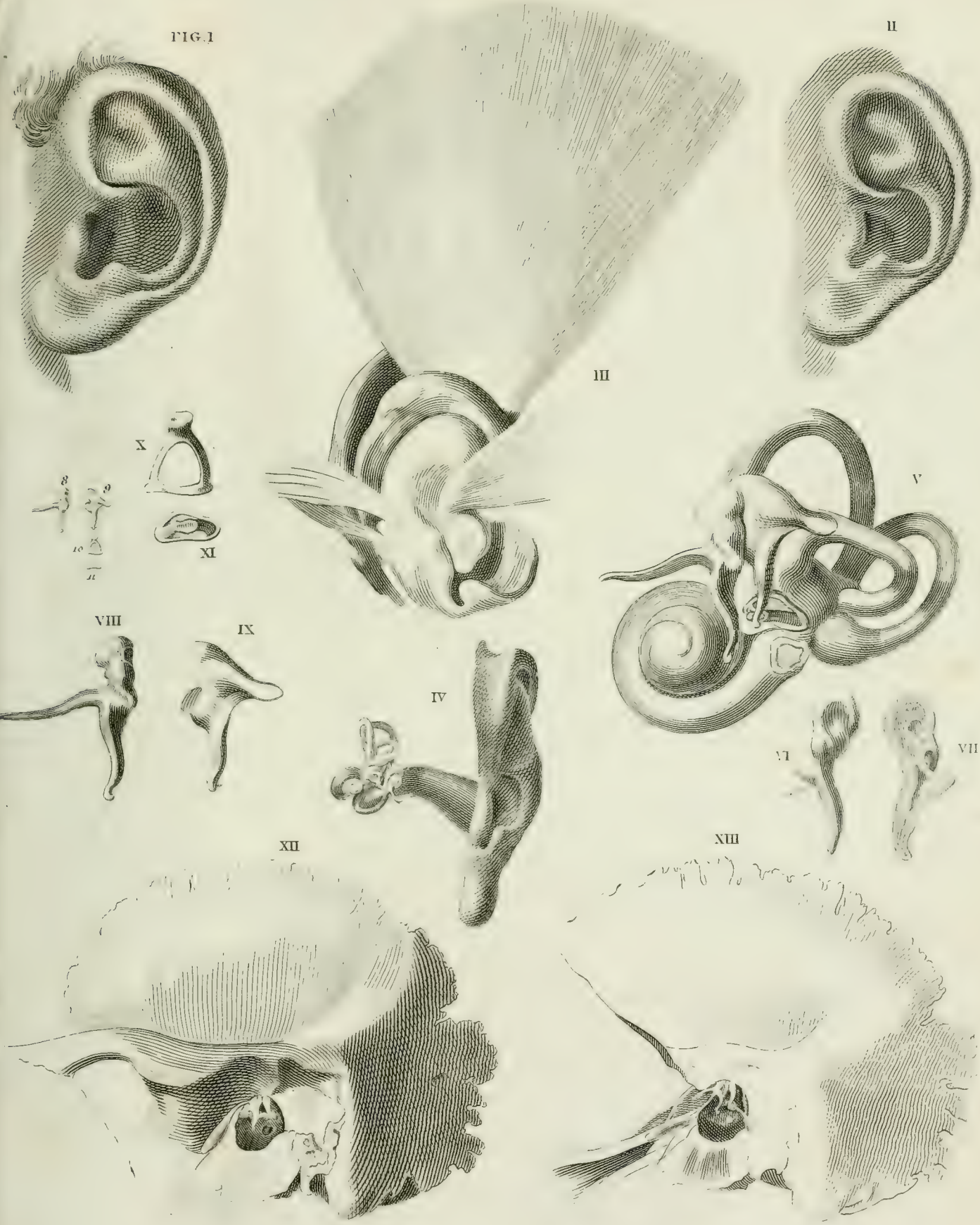


ANATOMY.

Organs of Sense.

Ear.

PLATE I.



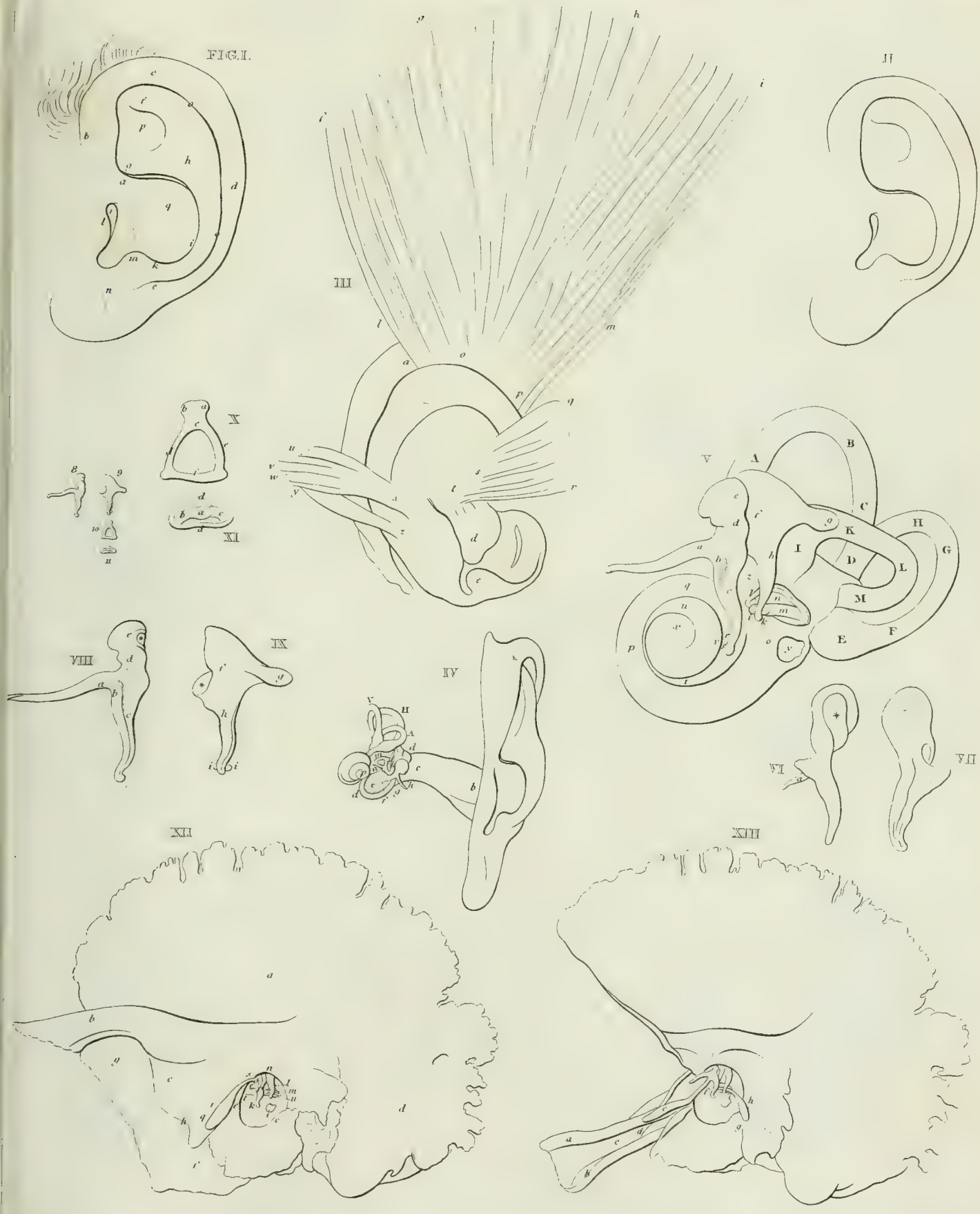
Published as the Act directs 30th Sept. 1806 by Longman Hurst Rees & Orme Paternoster Row.

ANATOMY.

Organs of Sense.

Ear.

PLATE I.



Published as the Act directs. Oct. 1st 1808 by Longman, Hurst, Rees & Orme, Paternoster Row.

Organs of Sense.

Ear.

Published as the Act directs 1st Sept. 1808 by Longman Hurst Rees Orme & Co.

Organs of Sense.

Ear

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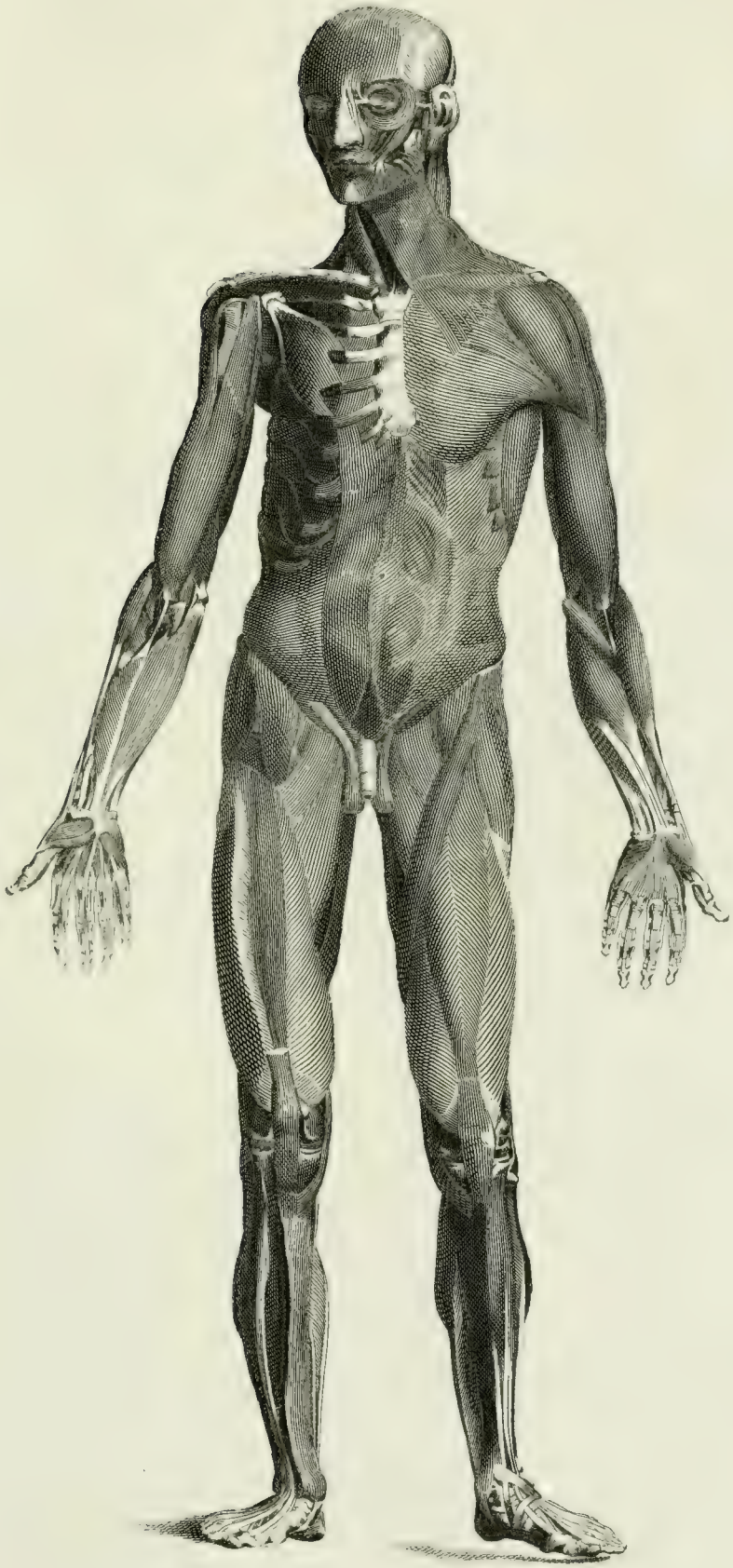
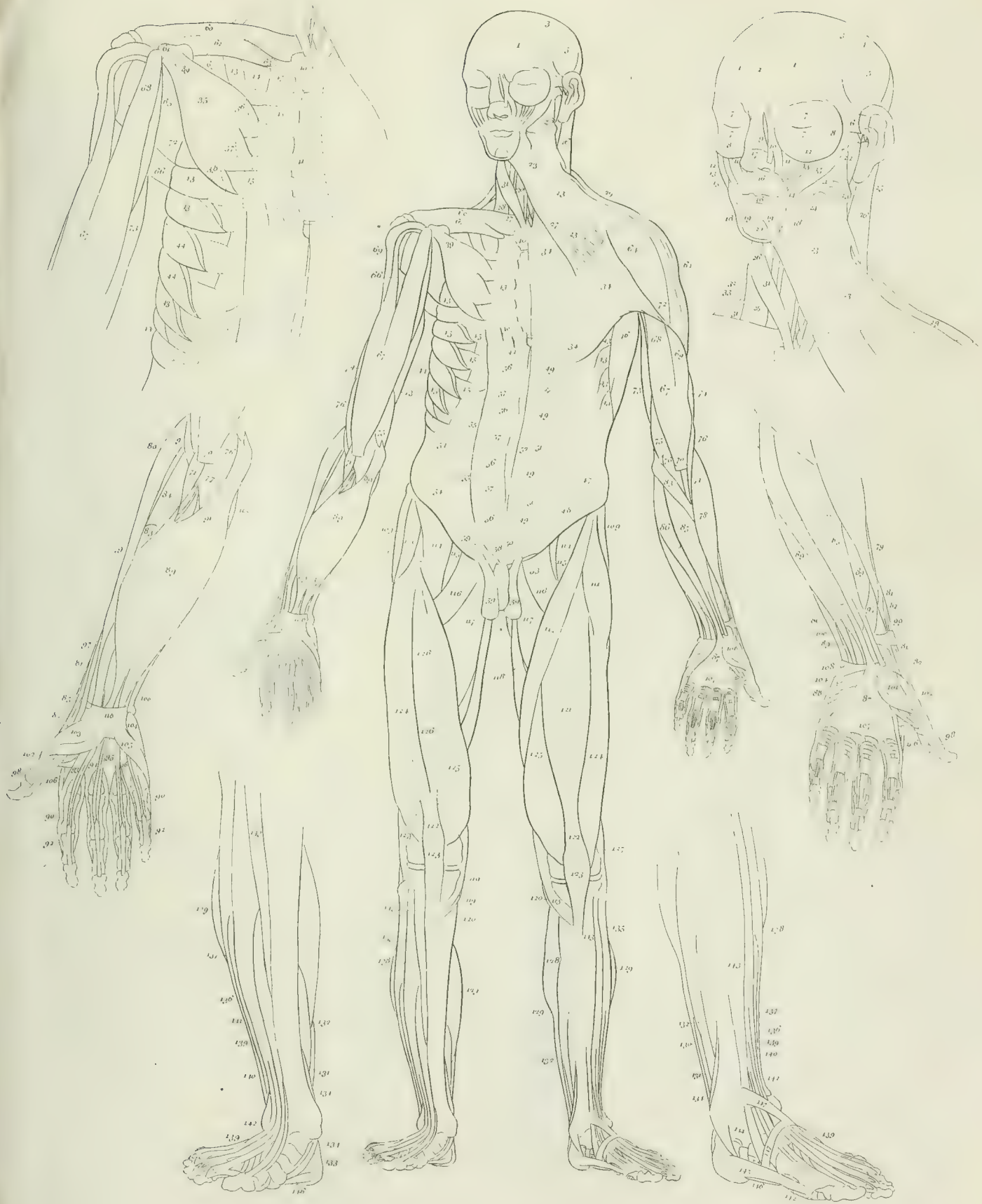


Published as the Act directs, May 1, 1804, by Longman & Rees Paternoster Row.



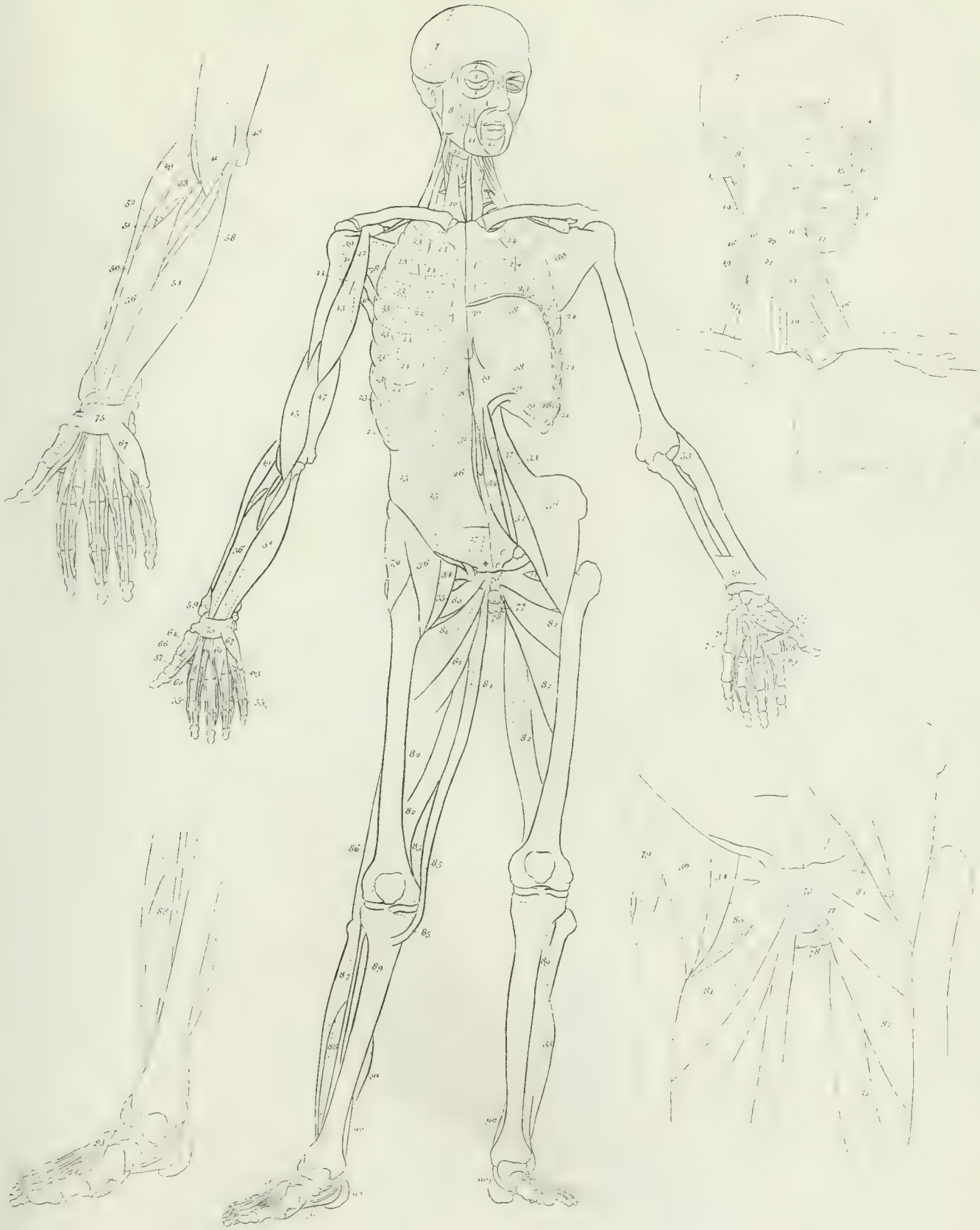
Published as the Act directs May 1. 1804 by Longman & Rees Paternoster Row.

Myology

Published as the Act directs June 1.1803 by Longman & Rees Paternoster Row.

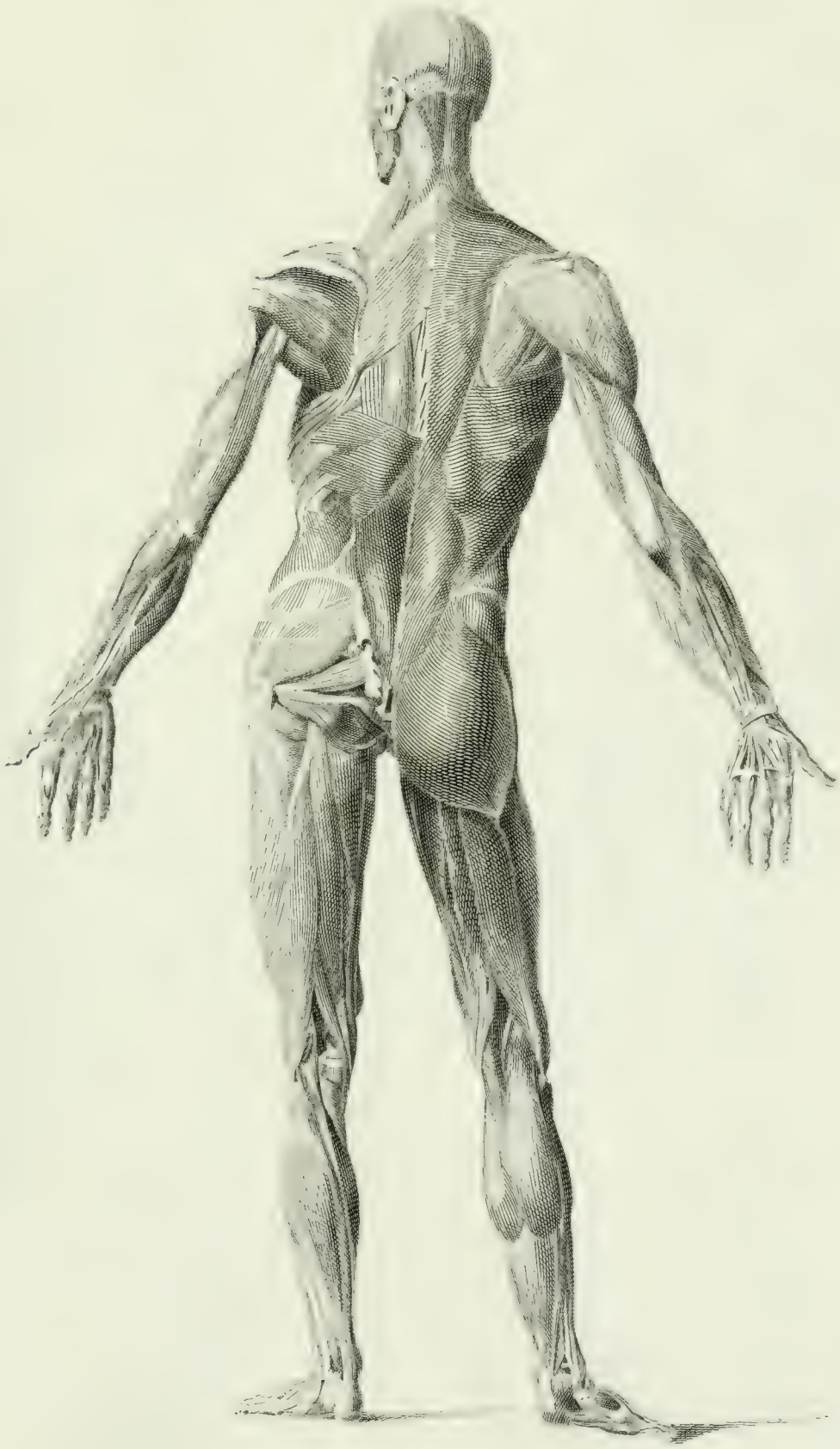
ANATOMY.

Myology.



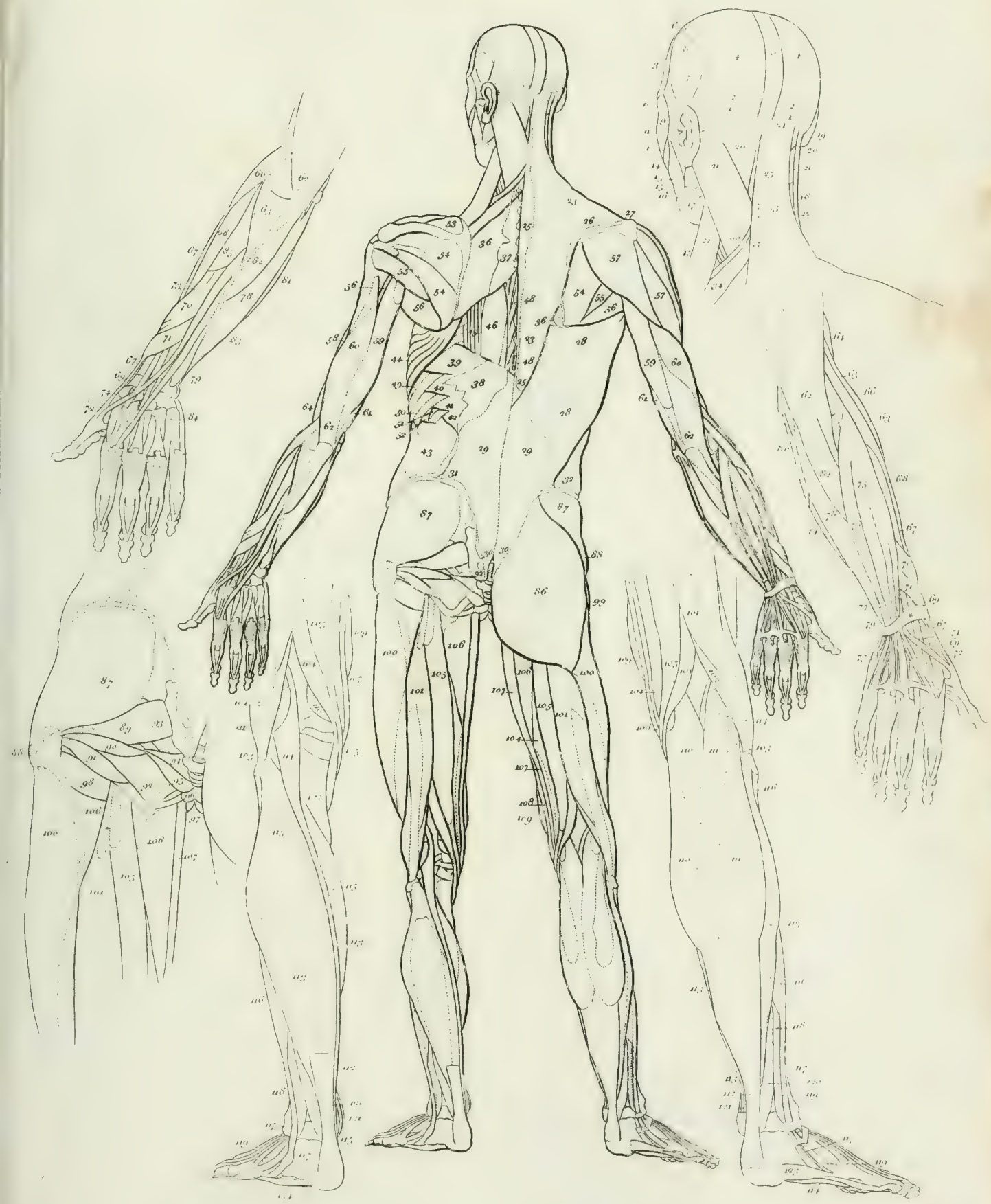
Published as the Act directs, June 1803, by Longman & Rees Paternoster Row.

Myology.



Published as the Act directs Sep.1.1802, by Longman & Rees, Paternoster Row.

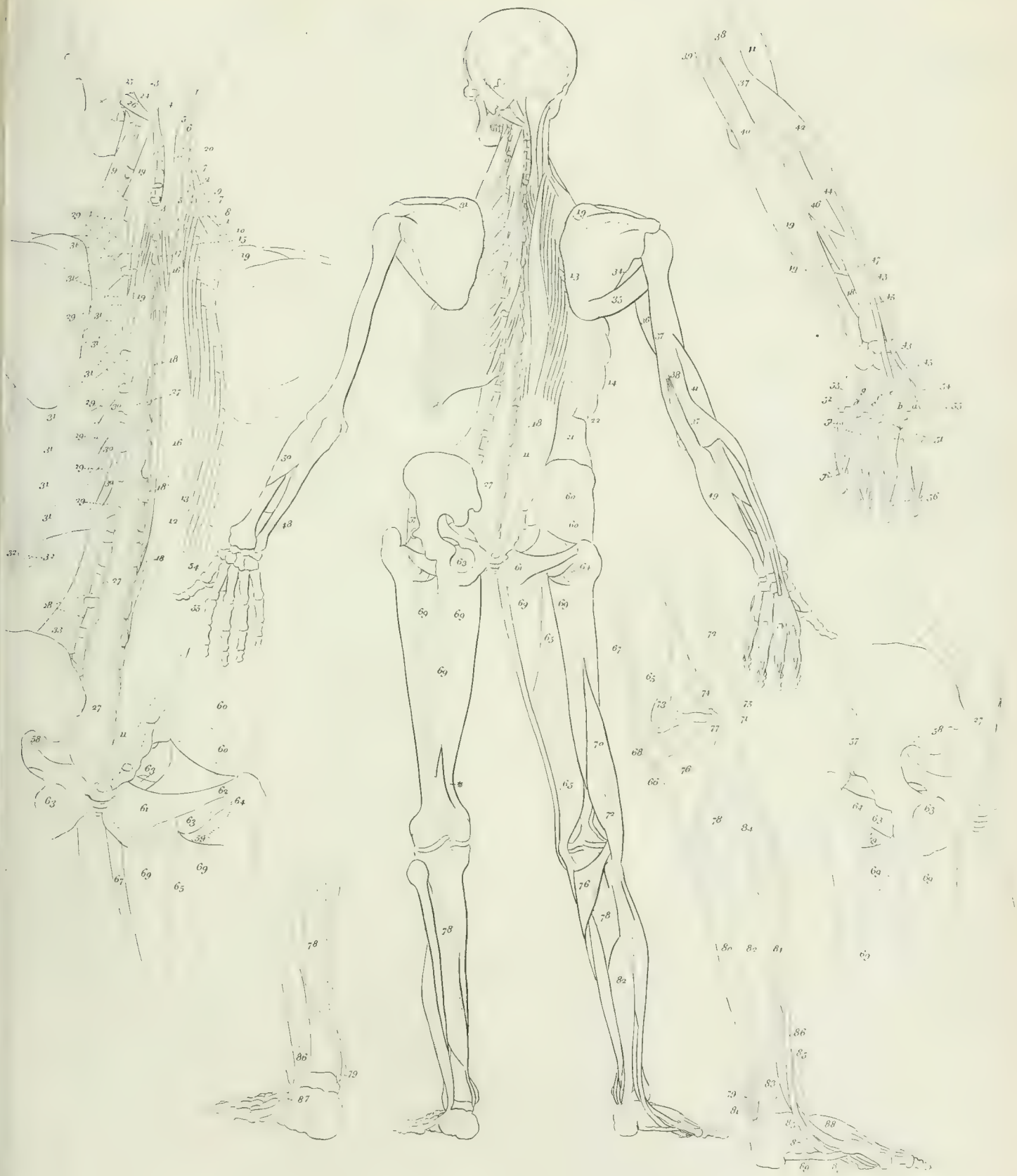
Myology.



Published as the Act directs 5th Jan. 1802 by Longman & Co. Cadell & Davies

Published as the Act directs Mar 1 1803 by Longman & Rees Paternoster Row

Myology.



Published as the Act directs, March 1, 1803, by Longman & Rees, Paternoster Row.

ANATOMY

Myology.

PLATE XVI

Published as the Act directs Nov 1st 1830, by Longman Rees & Co.

ANATOMY.

Osteology

PLATE XVI

Published as the Act directs Dec 7 1803, by Longman Hurst Rees & Orme . Paternoster Row

ANATOMY.

Skeleton.

Osteology.

PLATE XVIII.

Published as the Act directs, Jan.1.1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

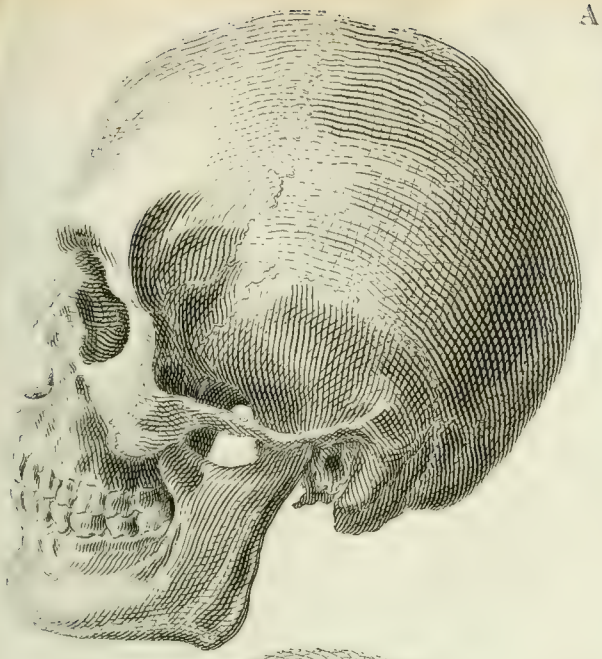
ANATOMY

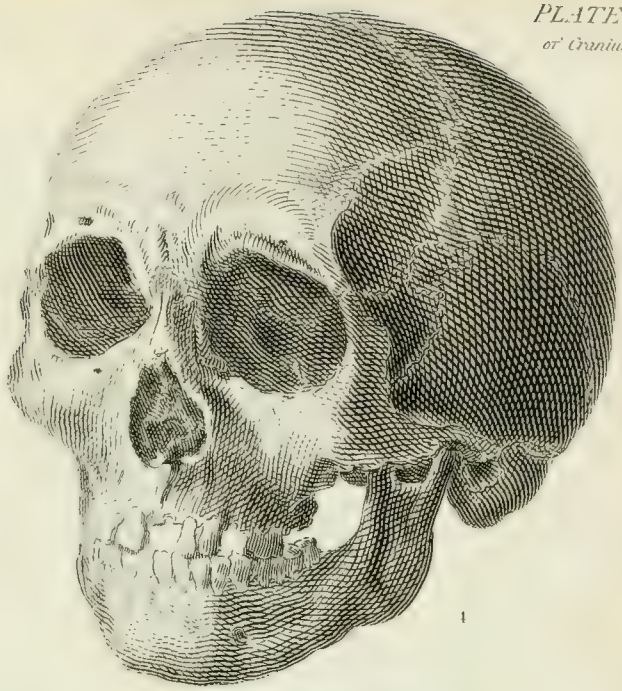
Osteology

CRANIUM.

PLATE I

or Cranium.





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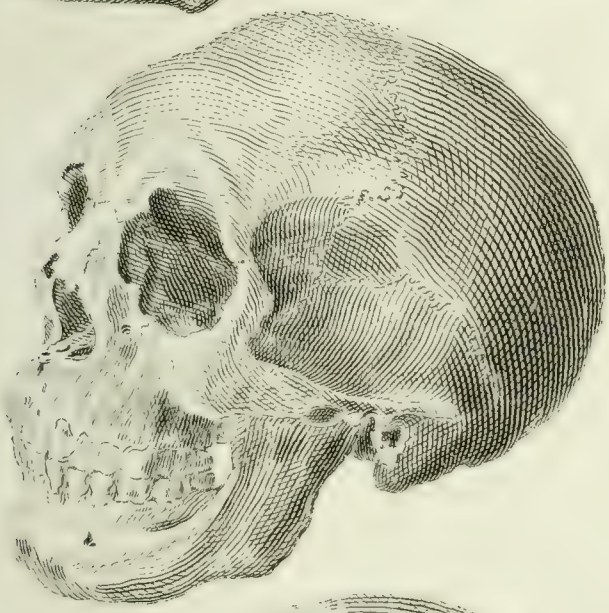

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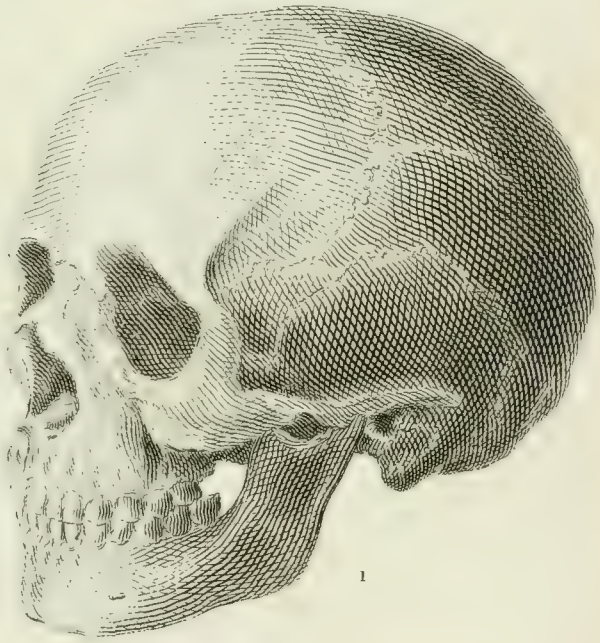

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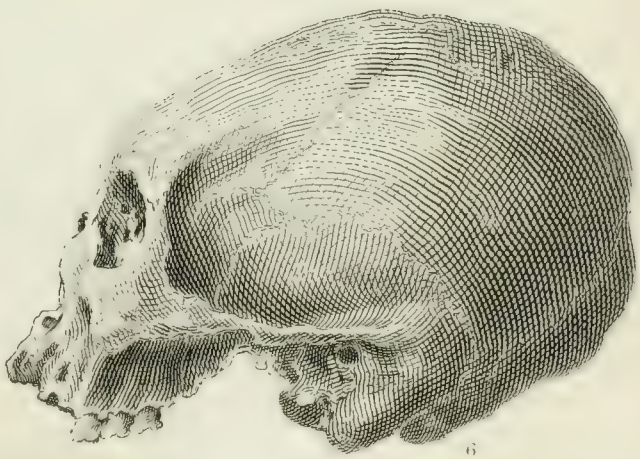

6

Georgian *Femal* 2 Turk 3 Negro 4 Calmuck 5.6. Caribs

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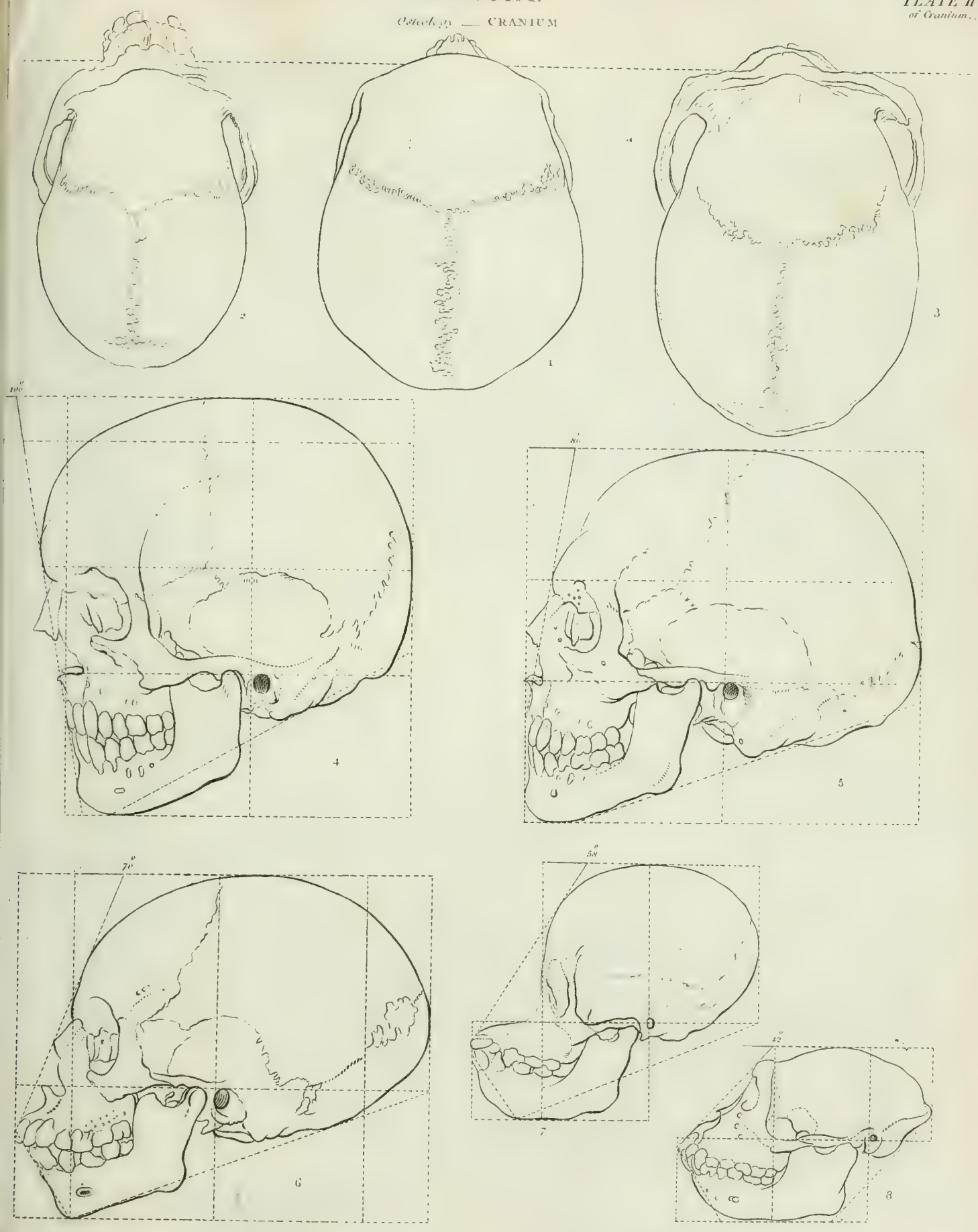


1.Georgian – 2.Negro – 3.Calmuck – 4.Antique – 5.European – 6.Negro – 7.Orang Outang – 8.Monkey.

Published as the Act directs Oct^r 1^st 1820 by Longman Hurst Rees & Orme Paternoster Row

Fig. 1.

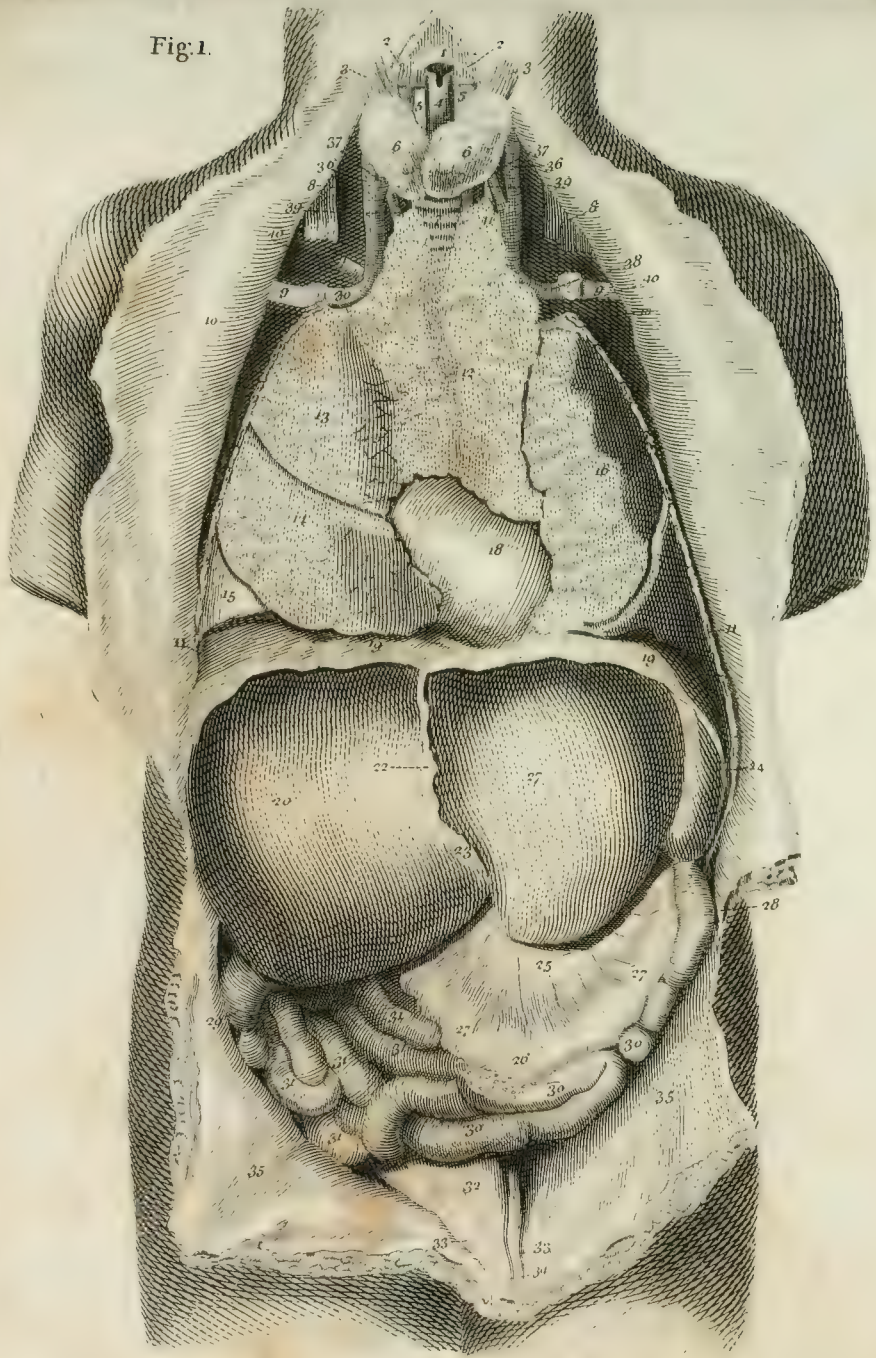
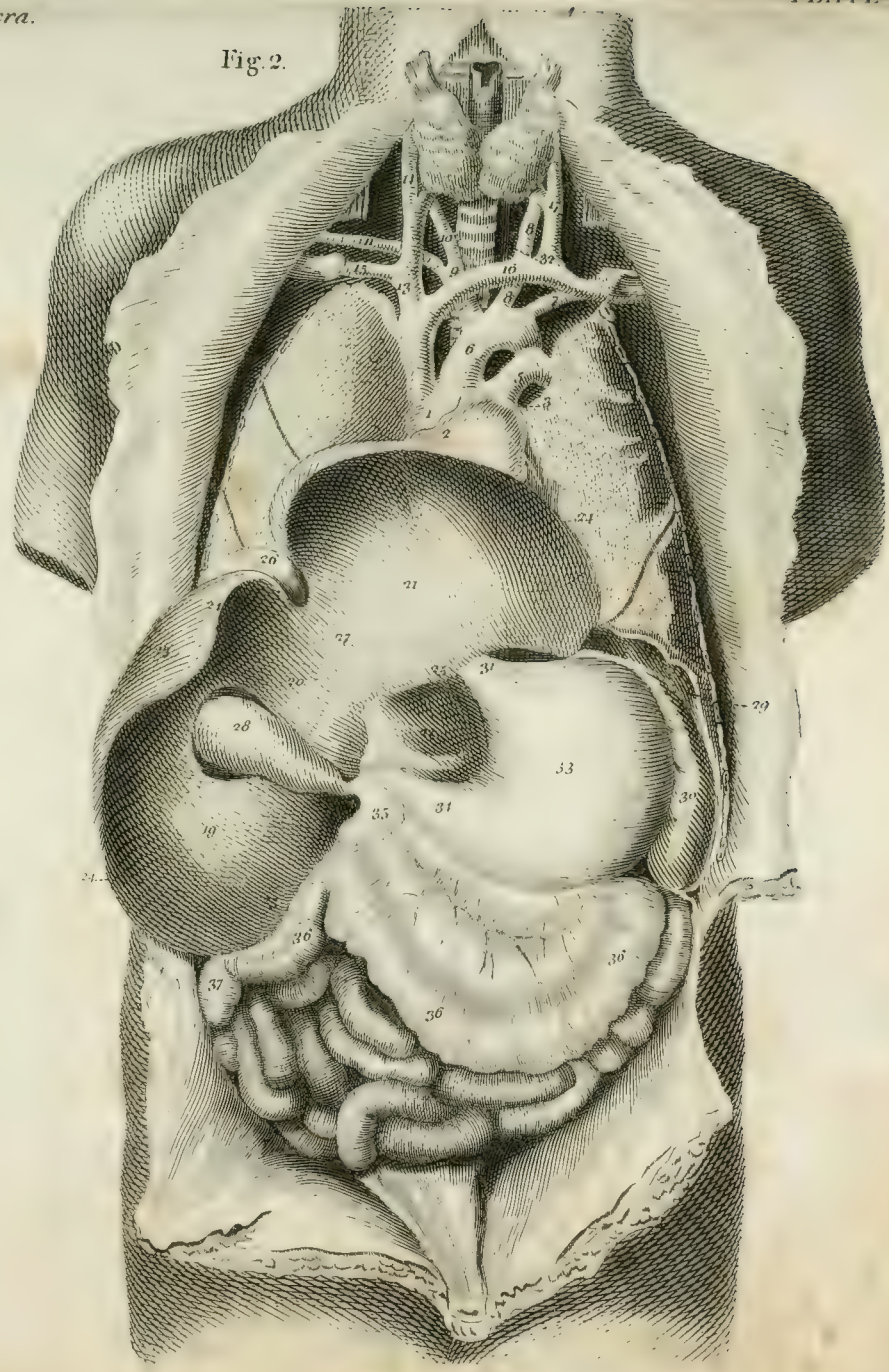


Fig. 2.



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Milton sc.

Fig 1

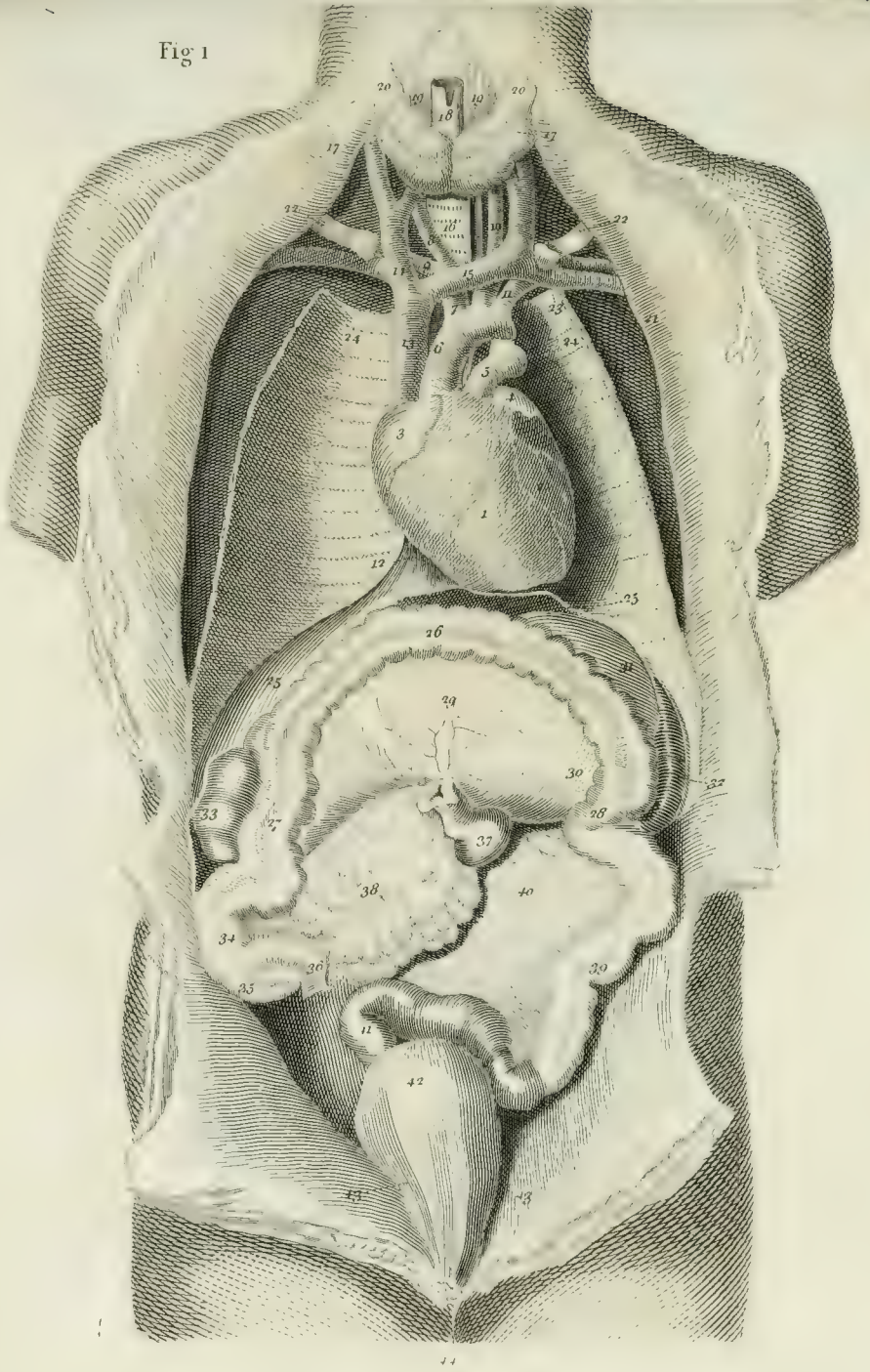
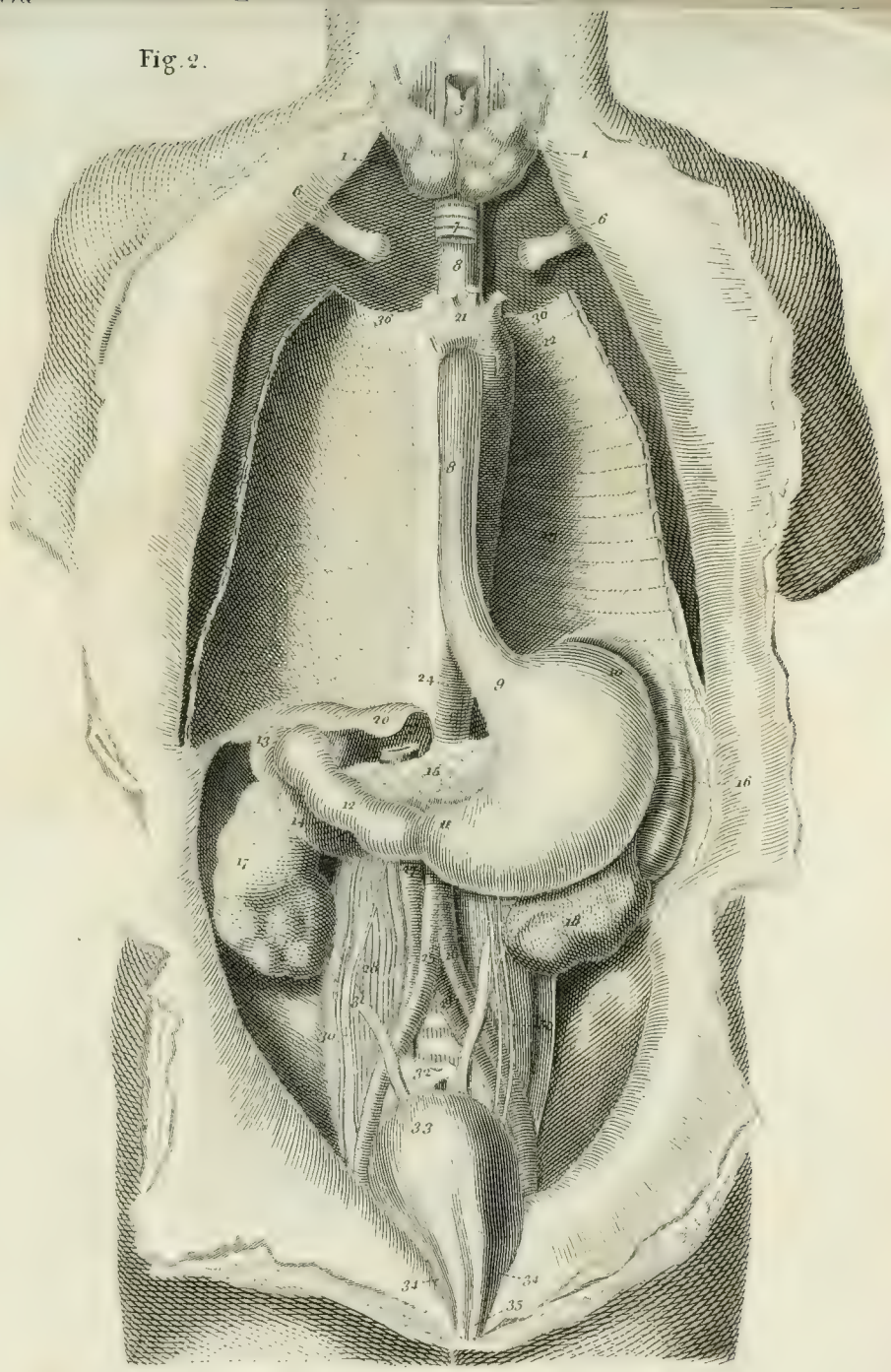


Fig. 2.



Milton sculp

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Fig. 1

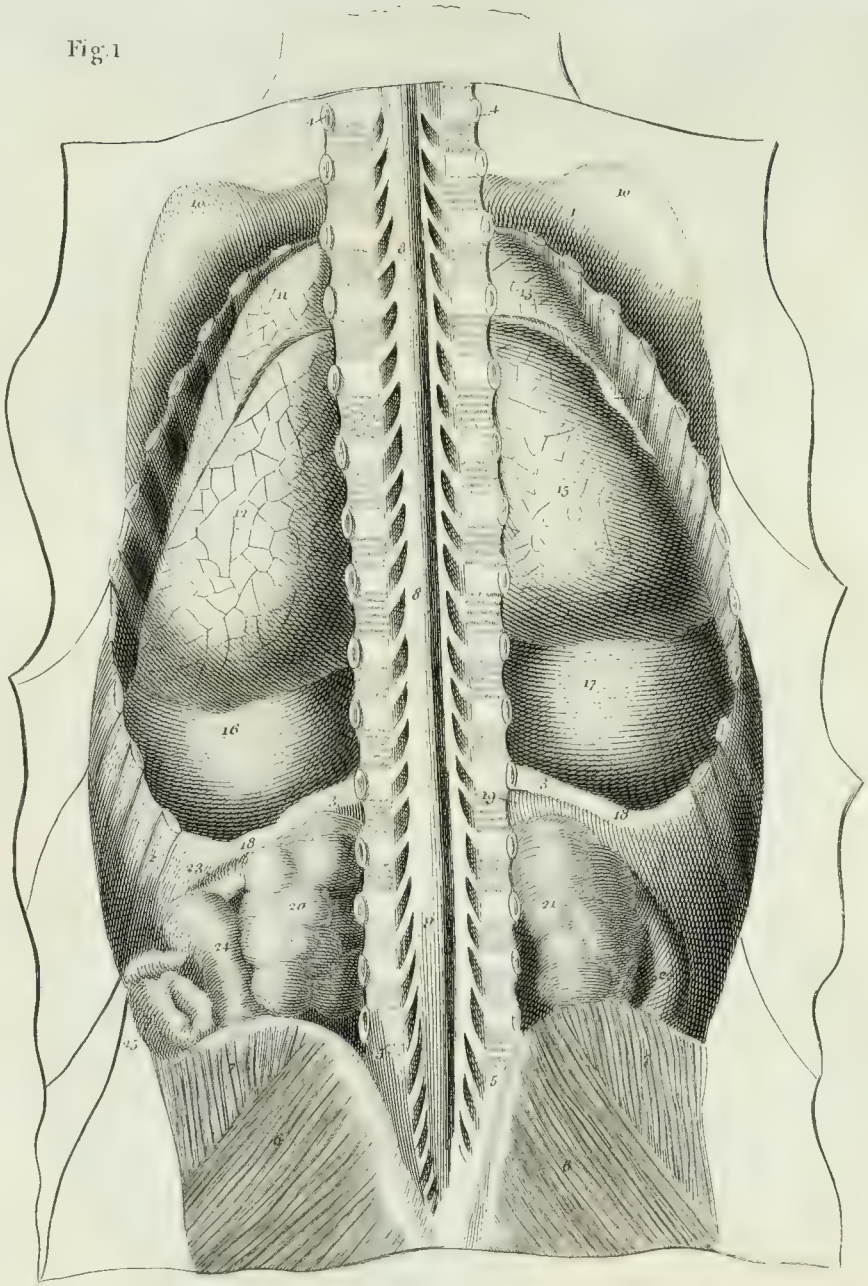
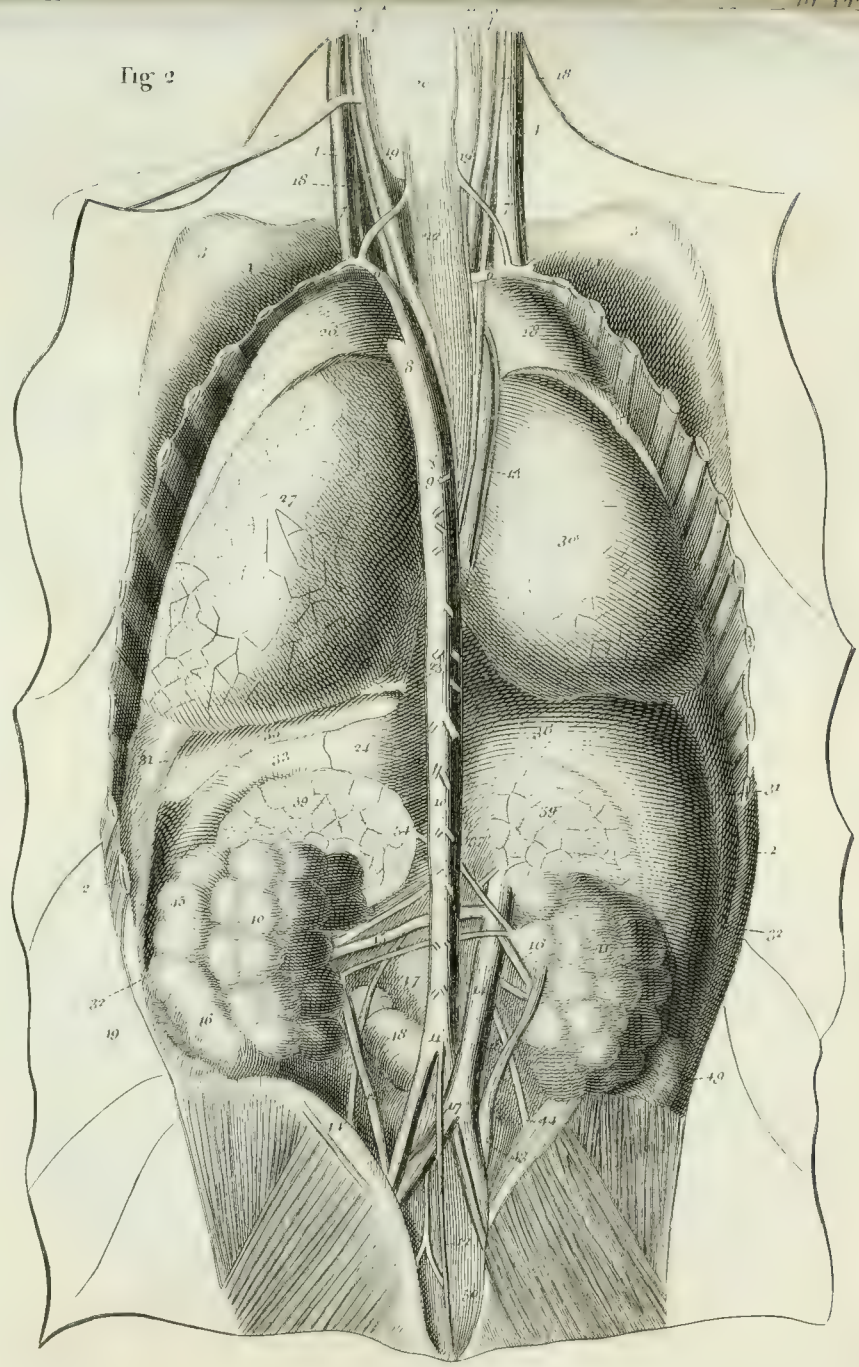


Fig. 2



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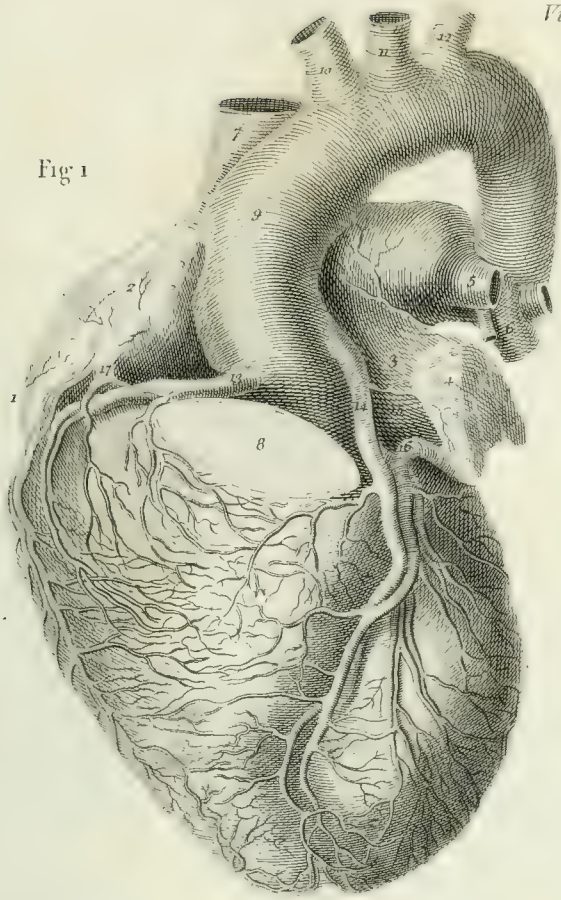
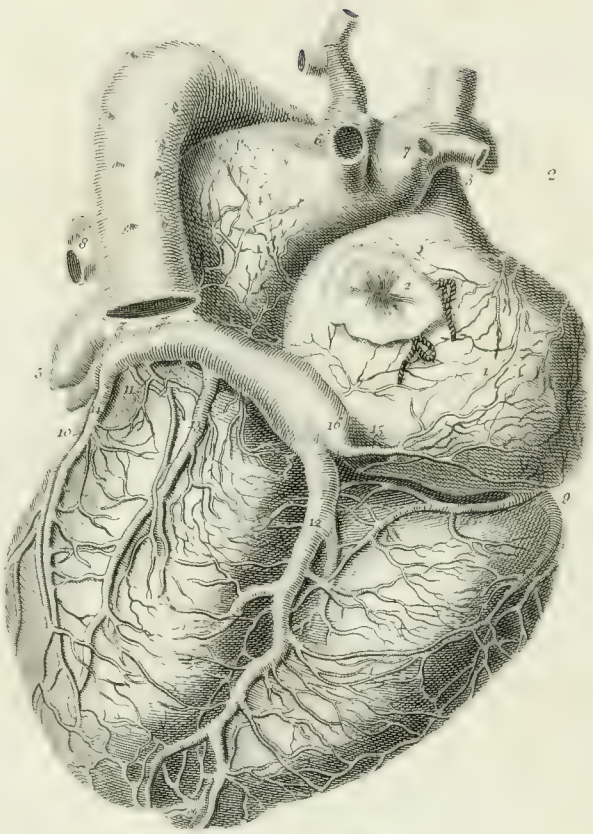
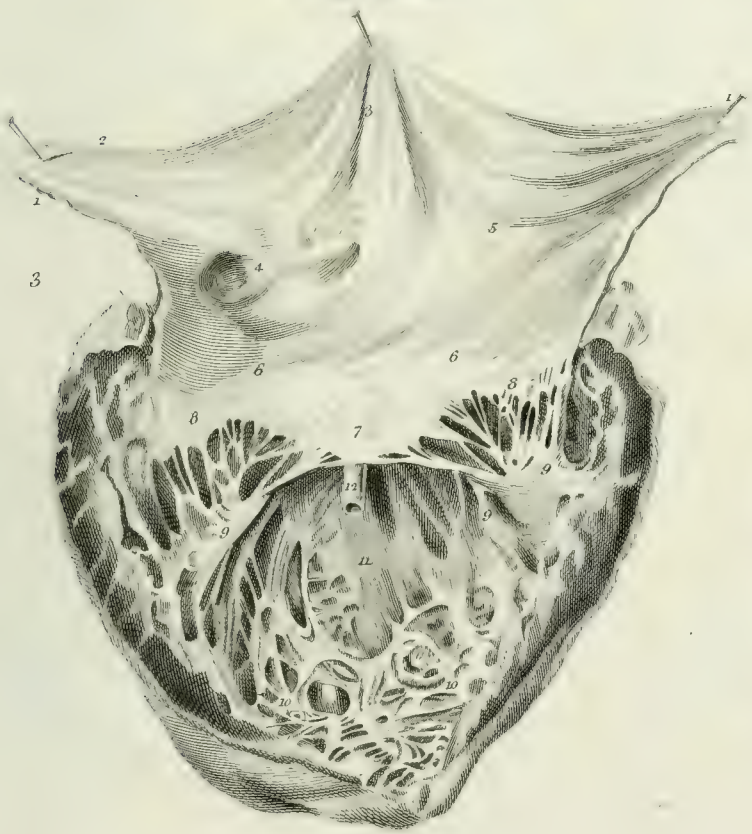
Milton sculp.

Viscera.

Fig 1







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Milton sculp

FIG. 2. *P. II.*

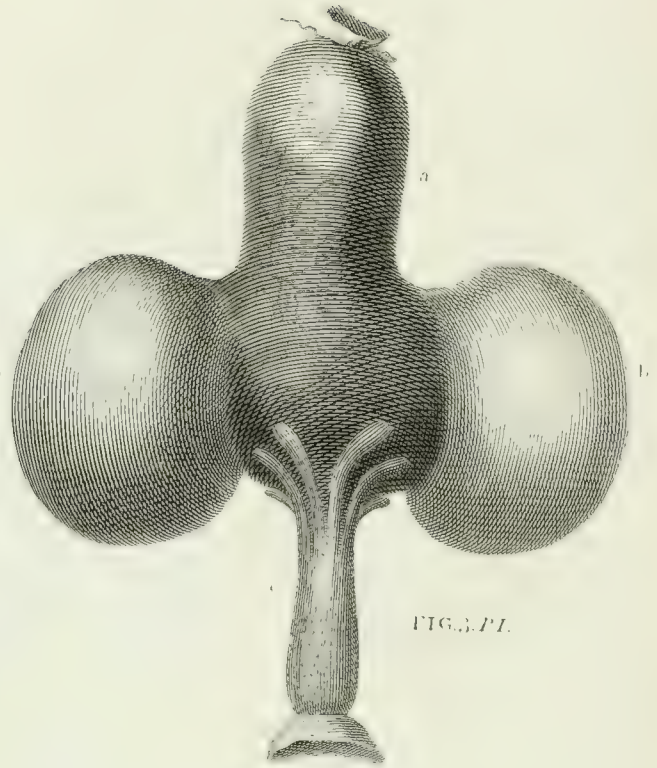

FIG. 3. *P. I.*

FIG. 2. *P. I.*

FIG. 1. *P. I.*

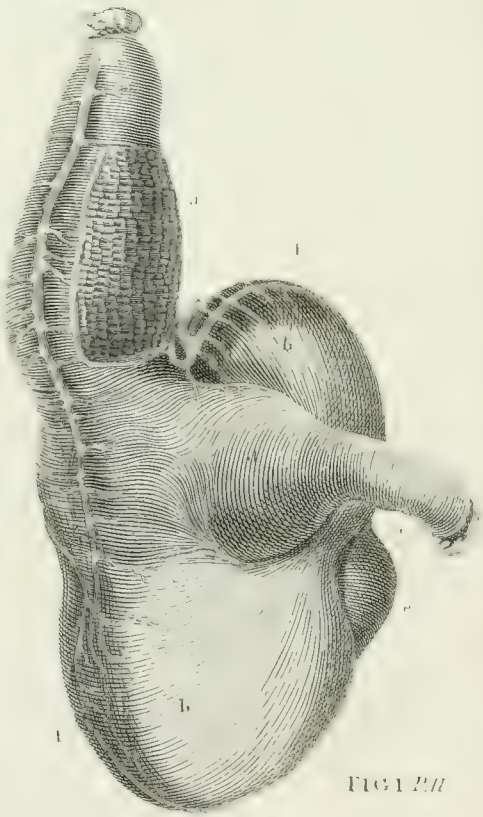

FIG. 1. *P. II.*

W. Clift, del.

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of Birds.

FIG. I.

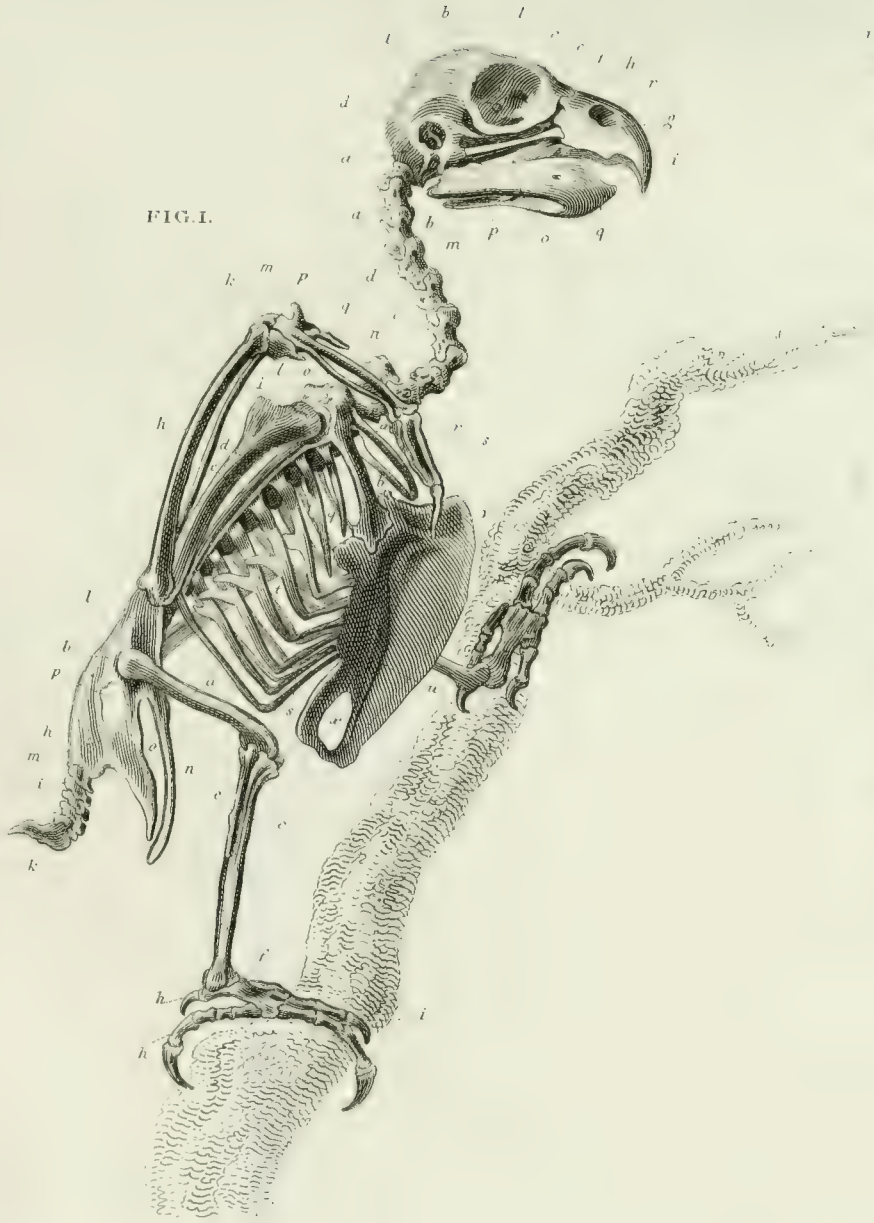

FIG II

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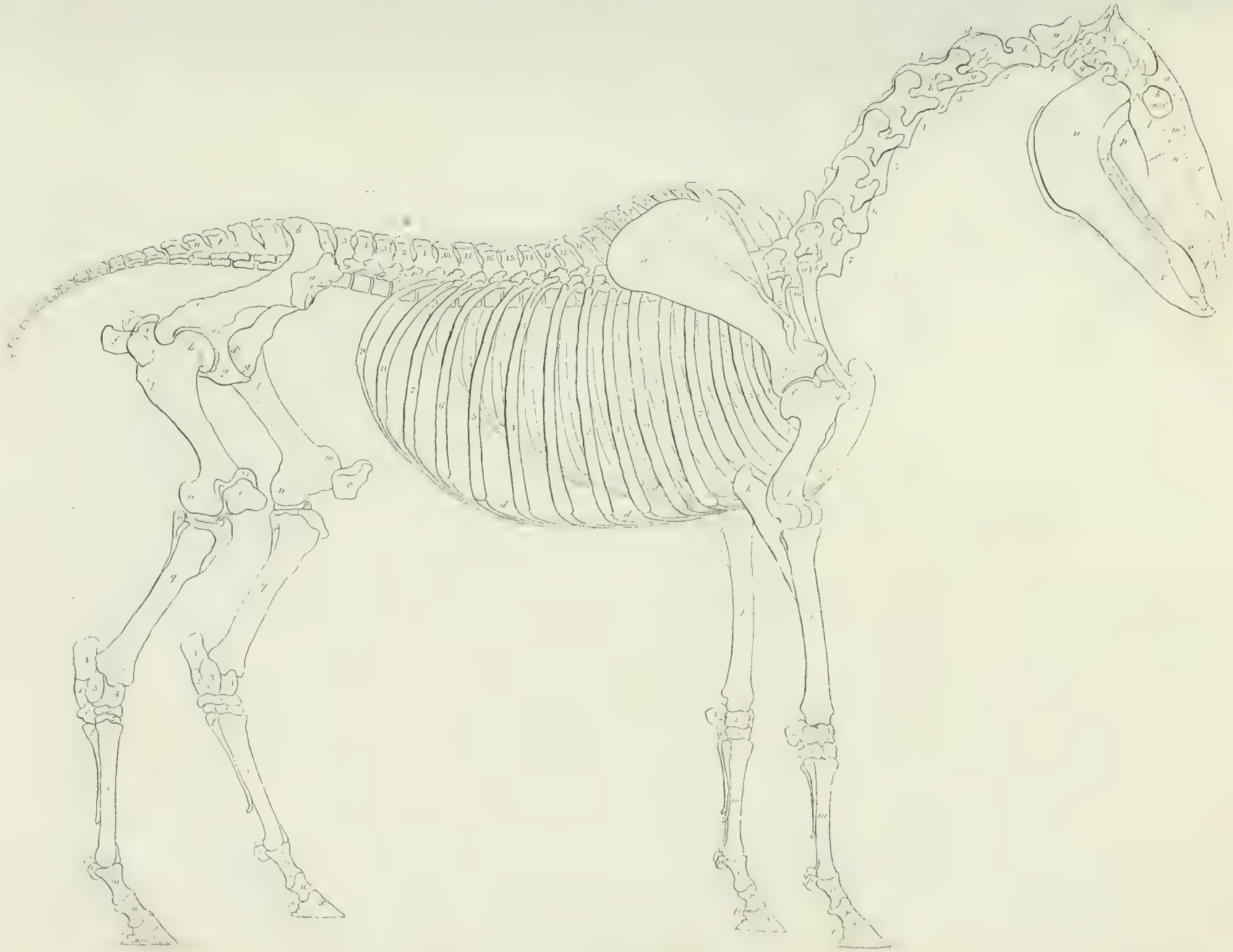
of the Horse.



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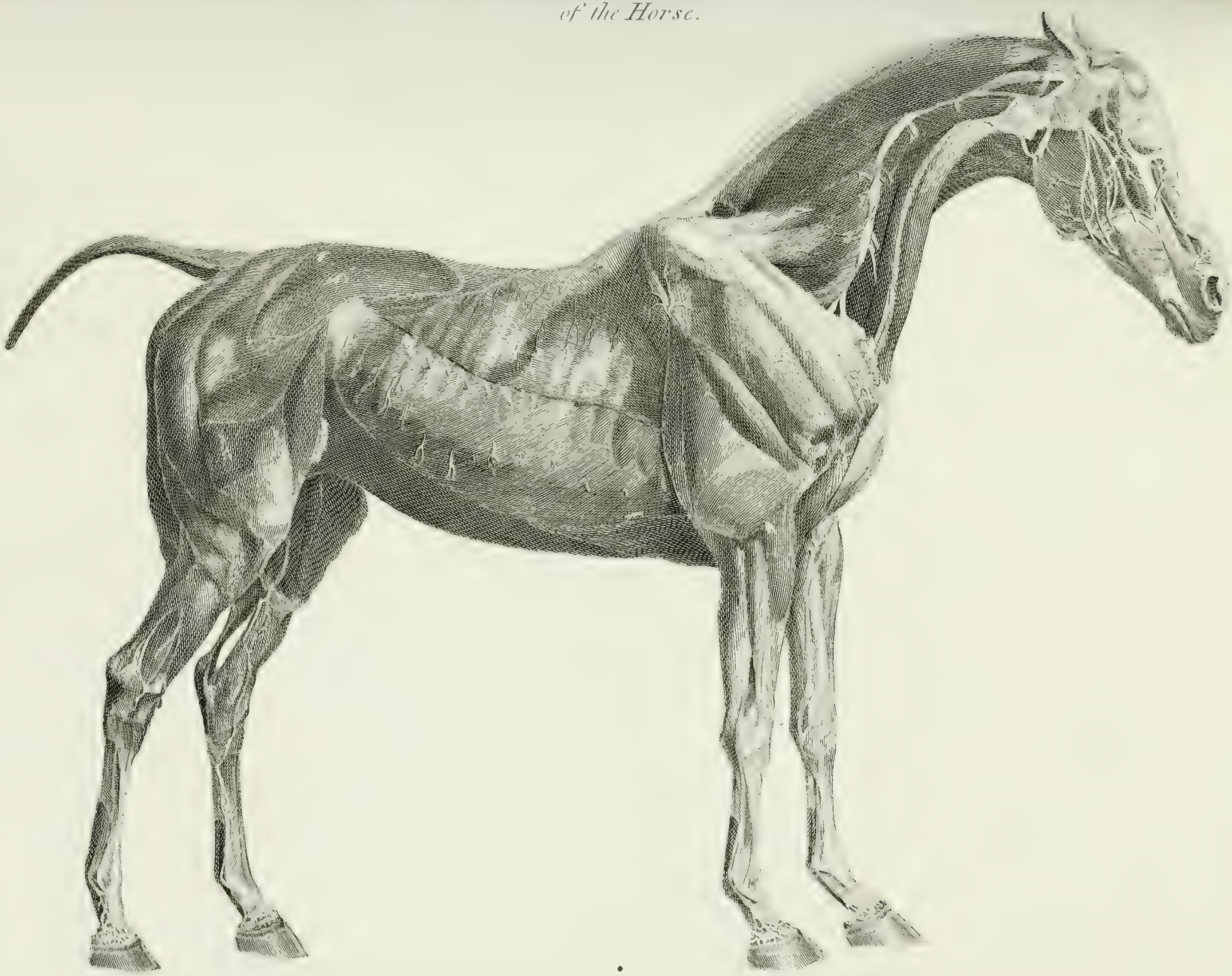
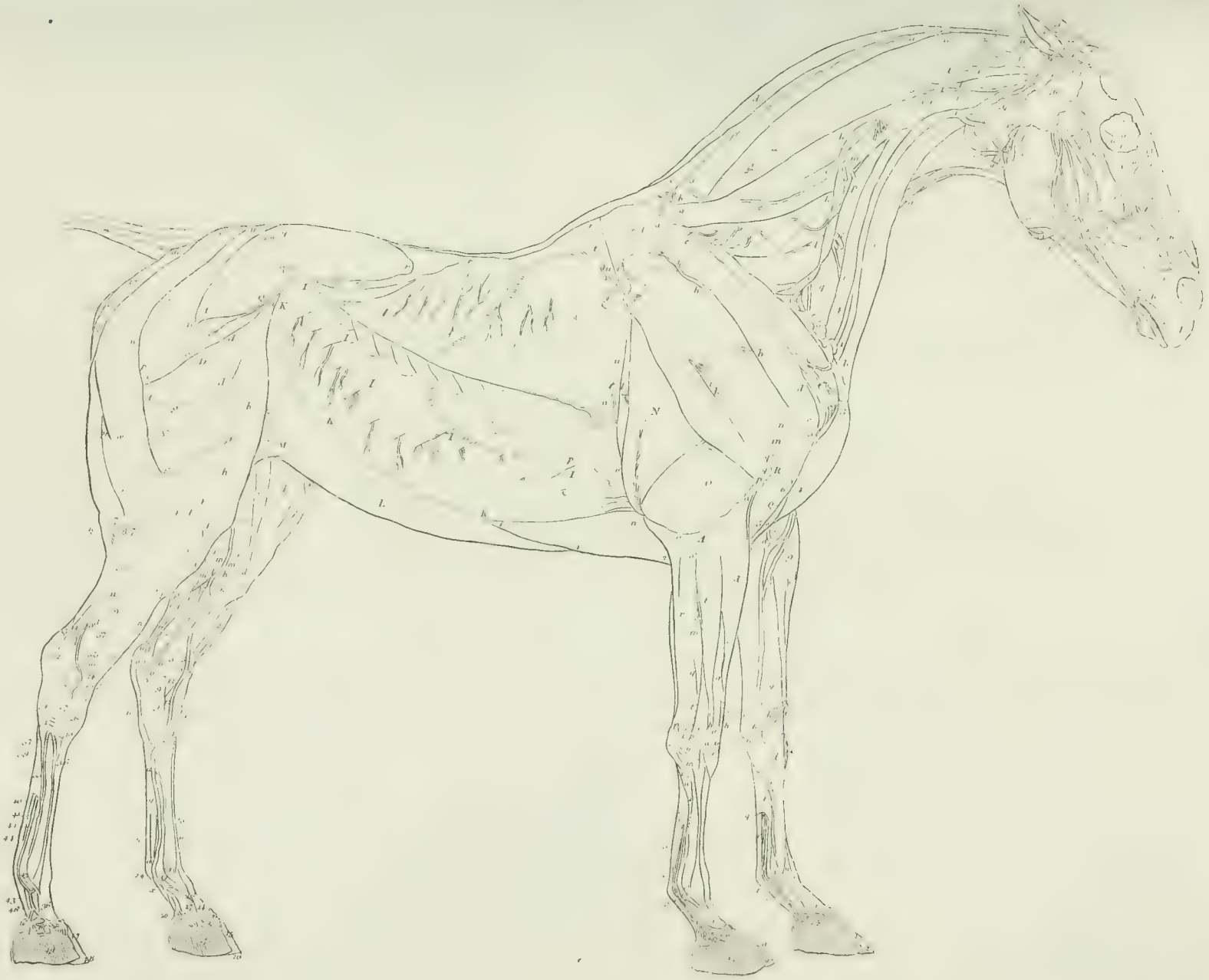
of the Horse.



Published as the Act directs Sep.r 1.1802. by Longman & Rees Paternoster Row.



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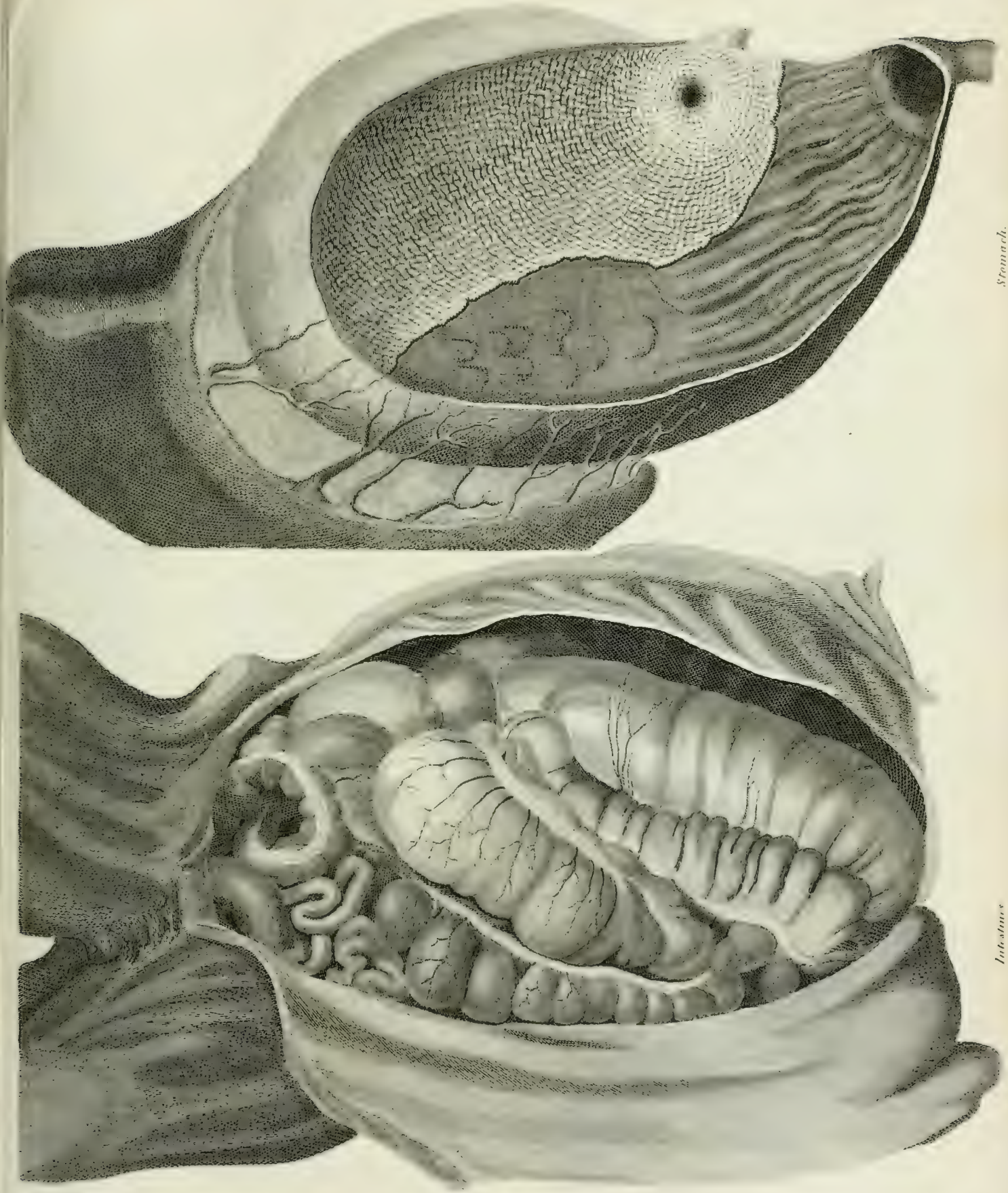
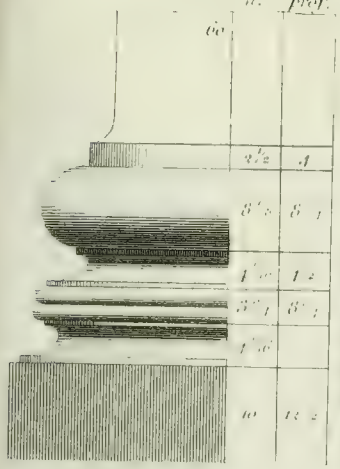


Published as the Act directs Sep.1.1802. by Longman & Rees Paternoster Row

Fig. 4.



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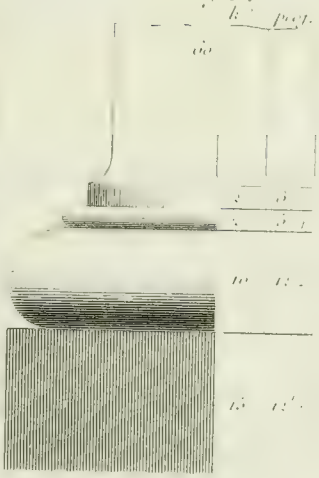

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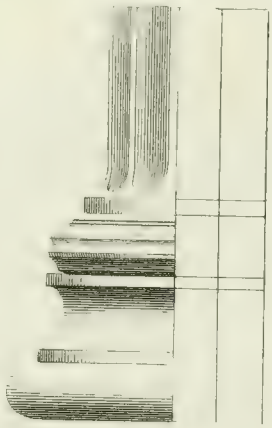
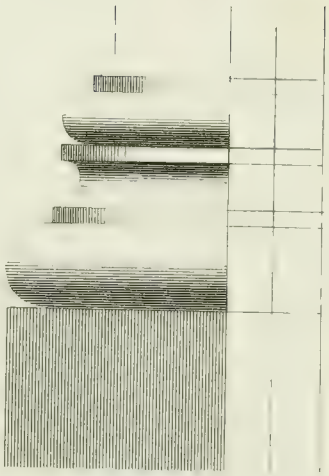


Fig. 1.



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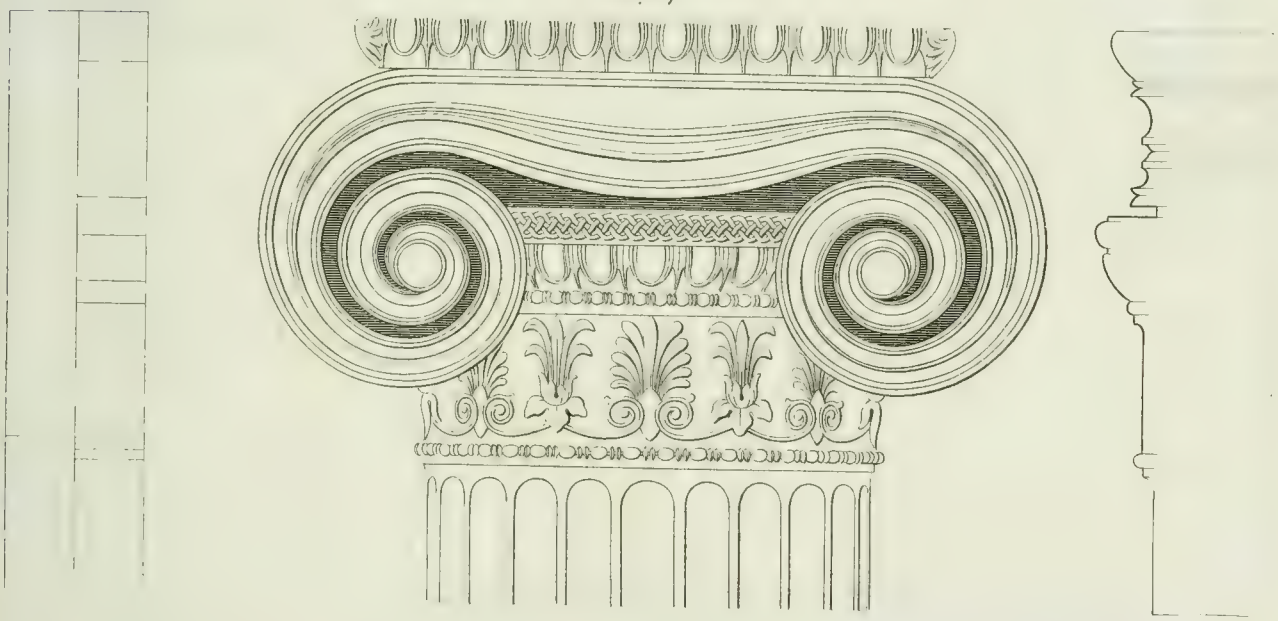

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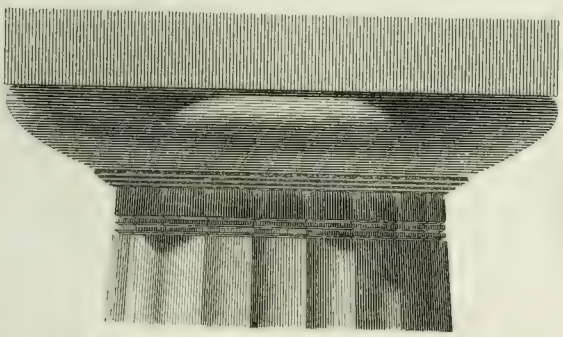

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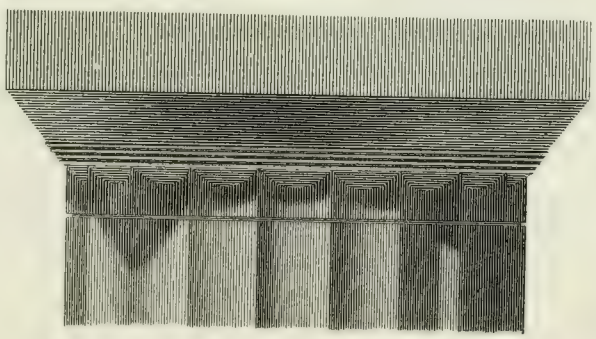

Fig. 1. Attic Base from the remains of the Temple of Jupiter Olympius at Athens.
Fig. 2. Attic Base from the Temple of Minerva Polias at Athens.
Fig. 3. Doric Base & Fig. 4 Ionic Base according to Vignola.
Fig. 5. Doric Capital from the portico of Philip in the Island of Deles.
Fig. 6. Doric Capital from the Temple at Corinth.
Fig. 7. Ionic Capital from the Temple of Minerva Polias at Athens.

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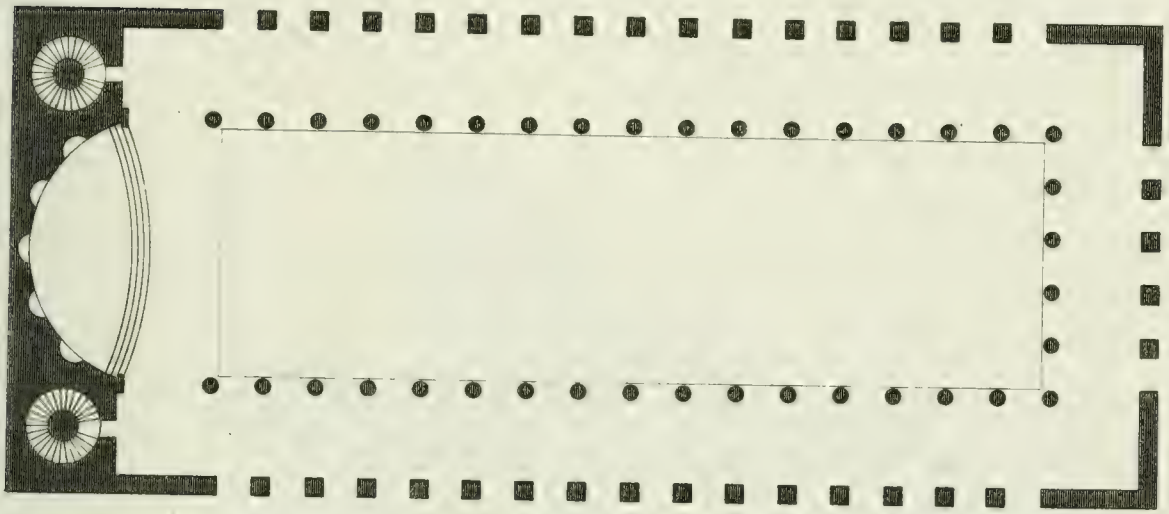
ROMAN BASILICA, FROM THE DESCRIPTION OF VITRUVIUS.



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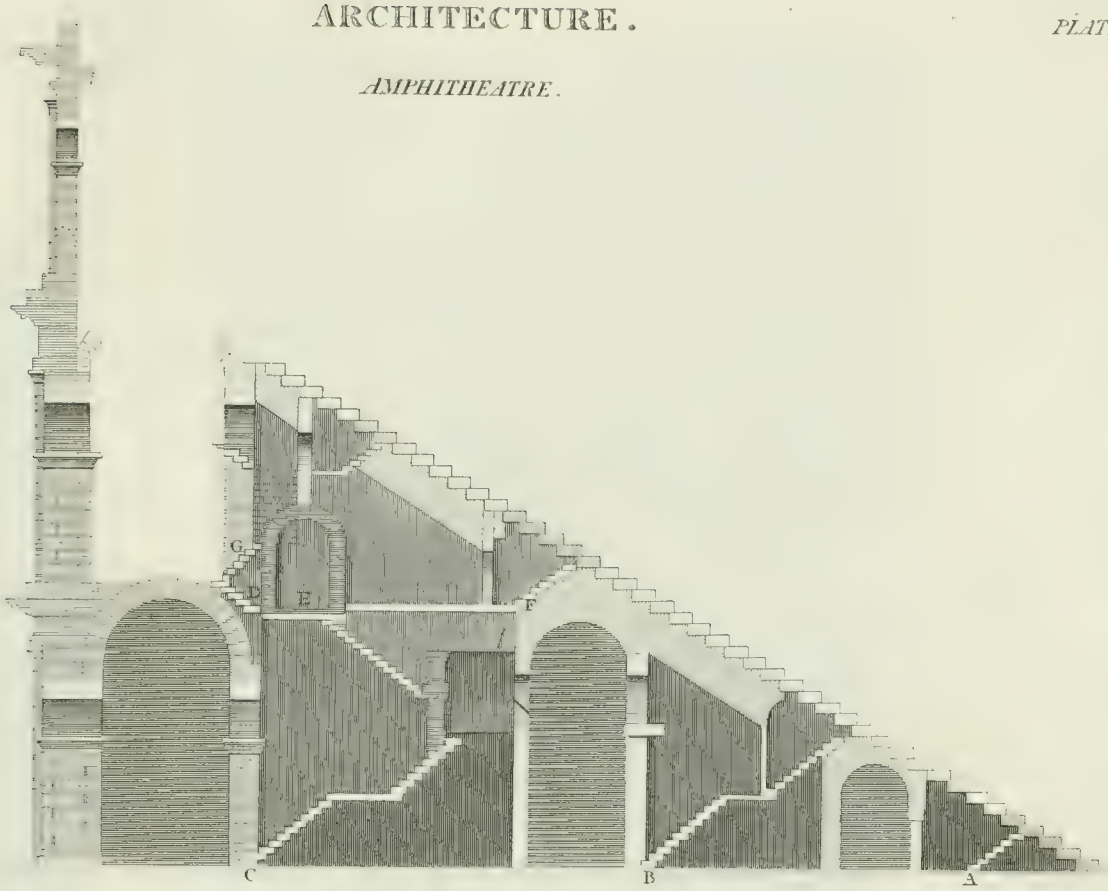
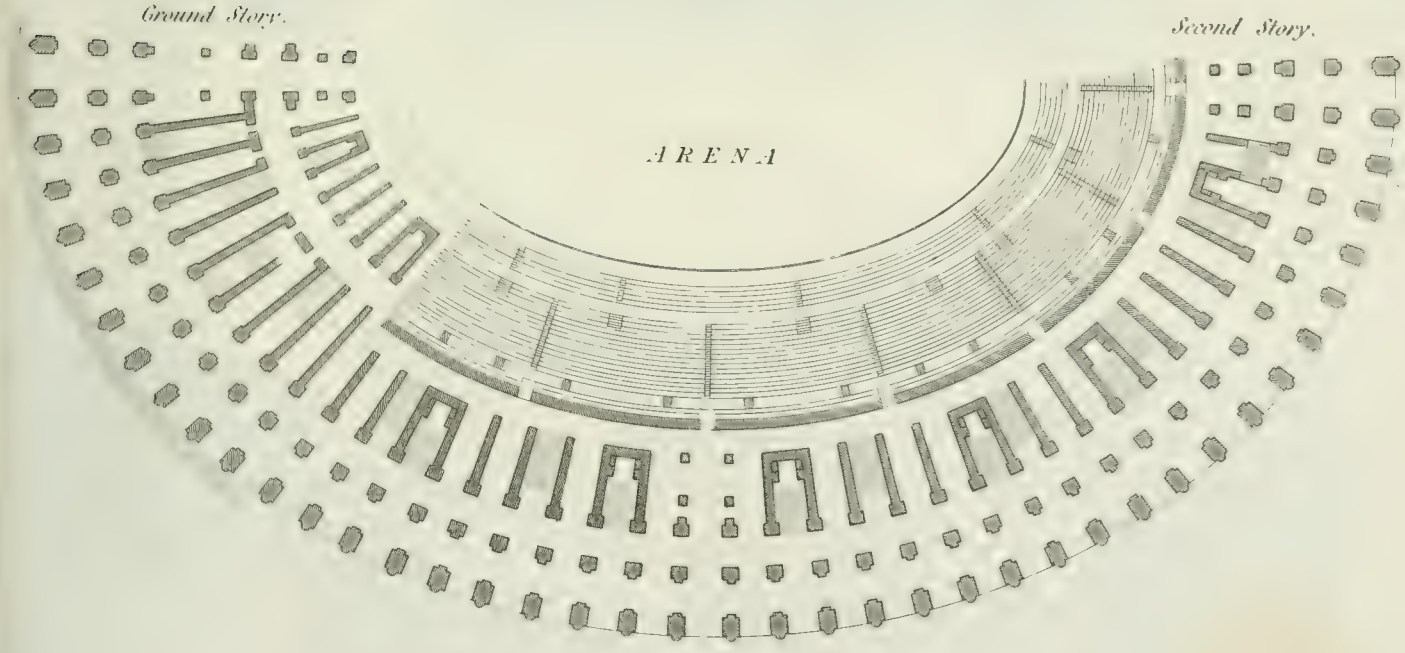
AMPHITHEATRE.



No 1. Referred to as Architecture/ PLATE II.



No 2. Referred to as Architecture/ PLATE III.

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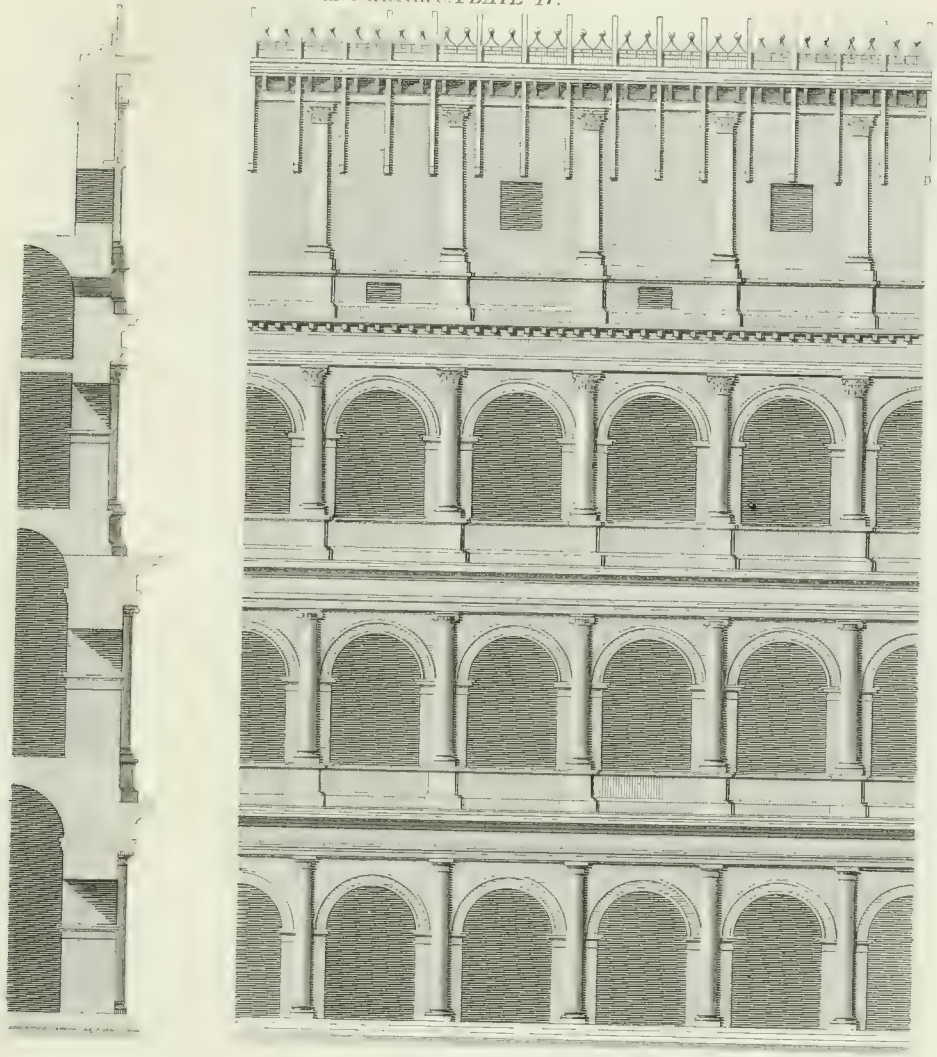
AMPHITHEATRE.

PLATE III.

N°. 1. Referred to as Architecture. PLATE II.



N°. 2. Referred to as Architecture. PLATE V.

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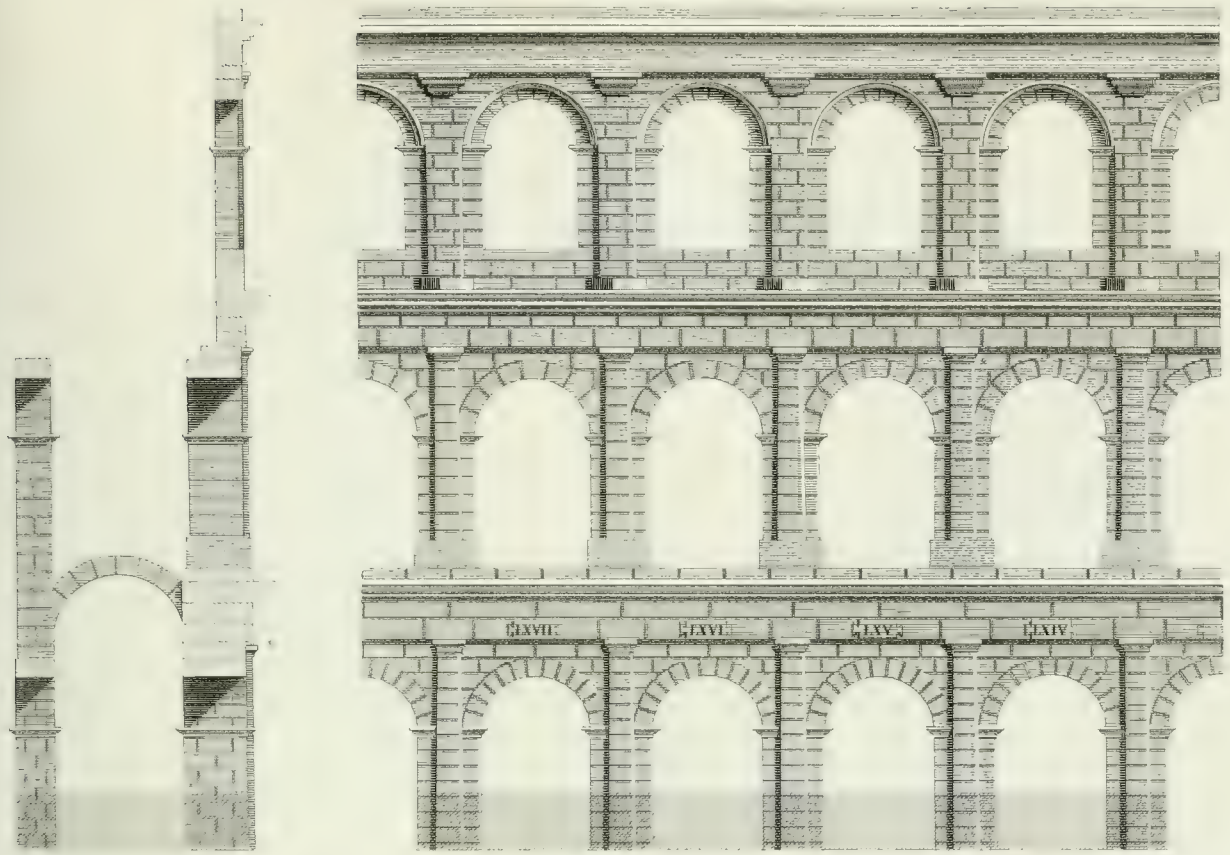
N°. 1. Referred to as Architecture, Plate VI.



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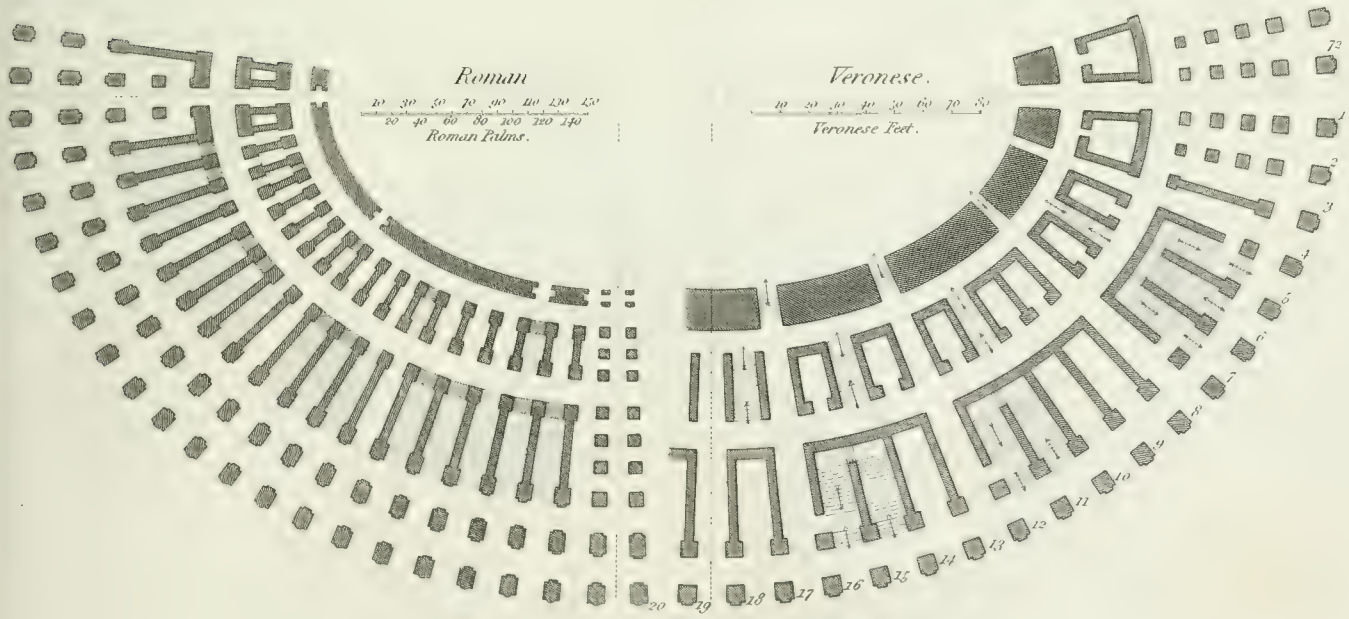

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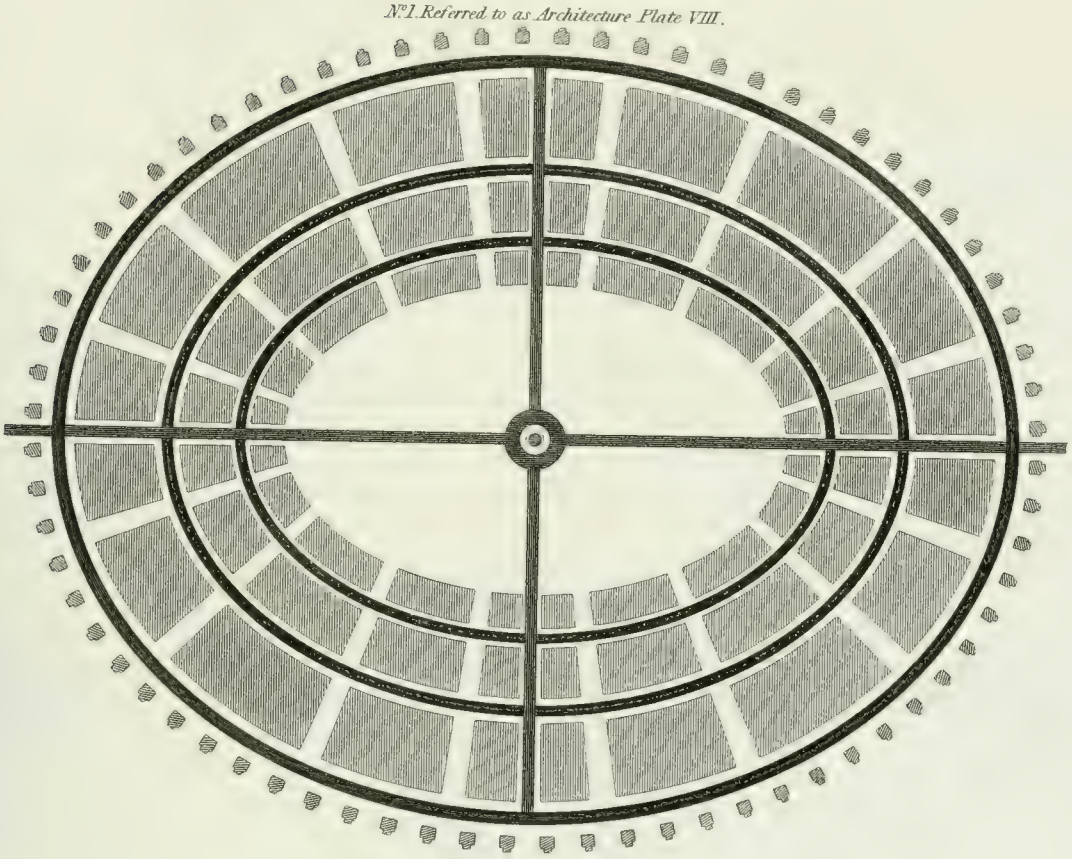
Lowry, Sc.

ARCHITECTURE.

AMPHITHEATRE.

N°1. Referred to as Architecture Plate VIII.



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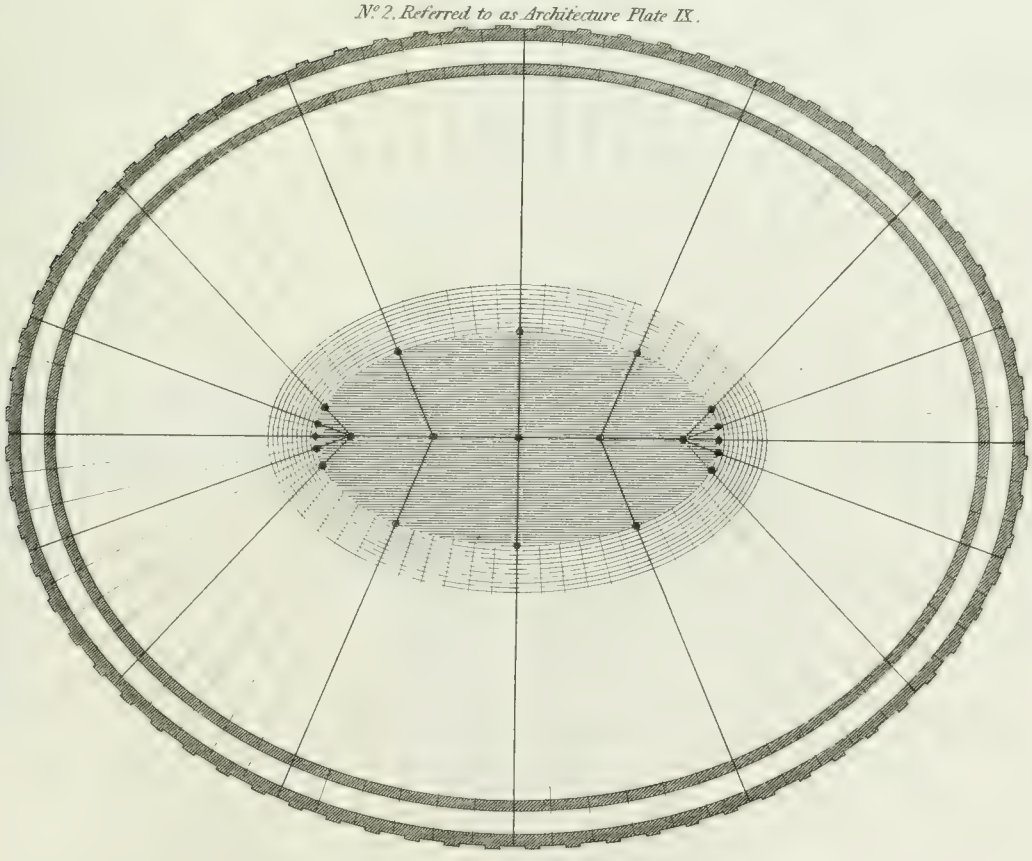

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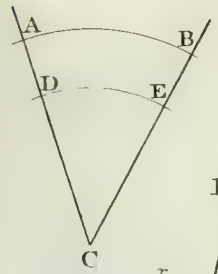
Fig. 1.



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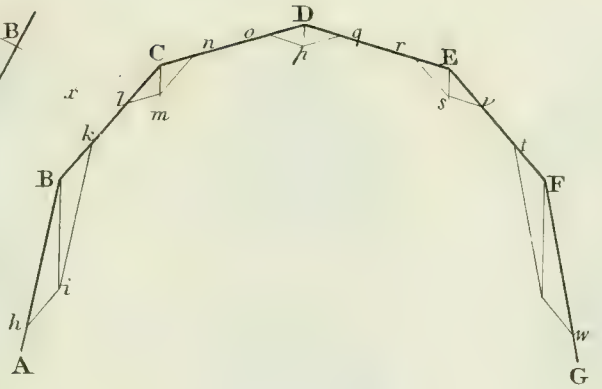

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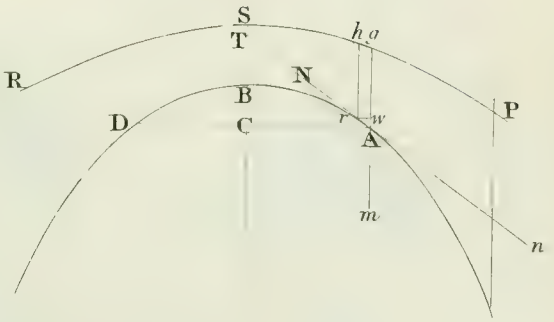

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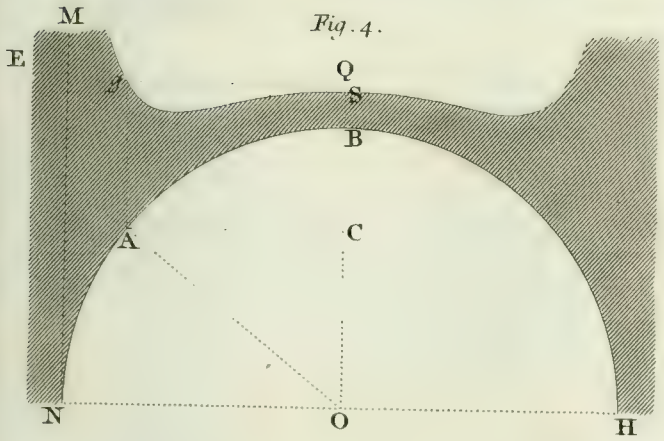

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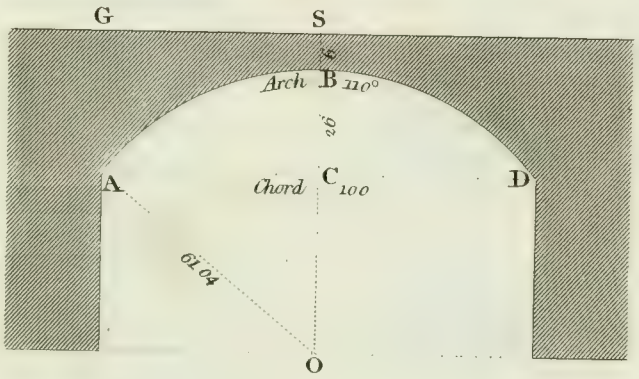

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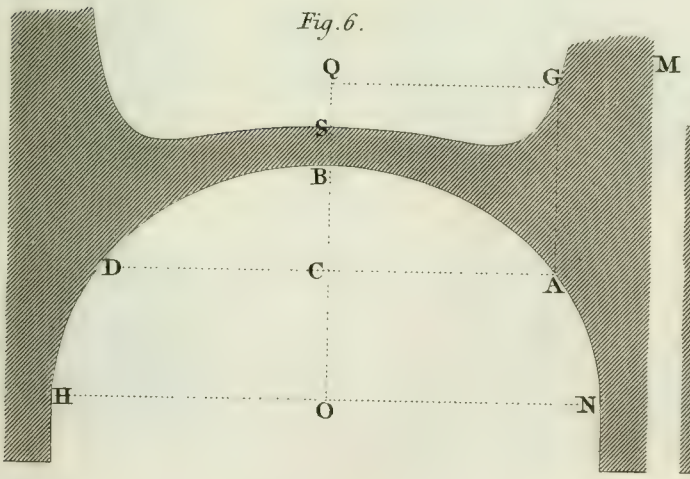

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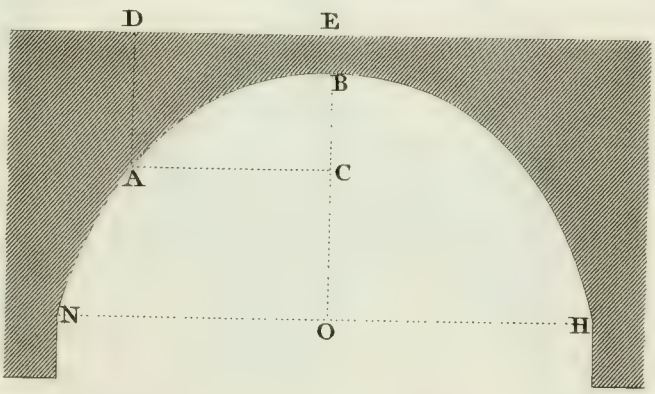

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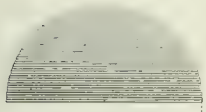
DOME.

Fig. 1. N° 4.



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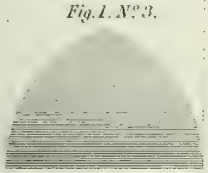

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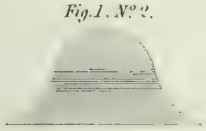

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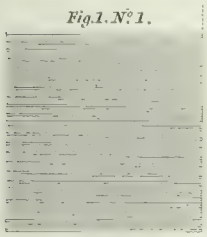

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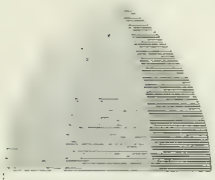

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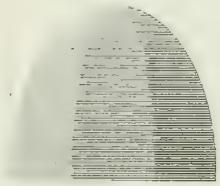
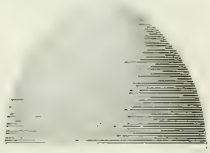


Fig. 2. N° 2.

Fig. 2. N° 1.

Fig. 3. N° 6.



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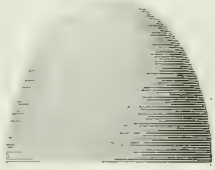


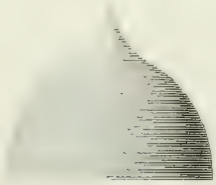
Fig. 3. N° 4.

Fig. 3. N° 3.

Fig. 3. N° 2.

Fig. 3. N° 1.

Fig. 1 N° 5.



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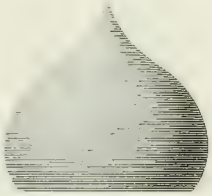

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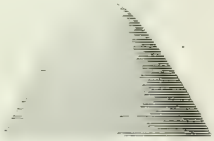

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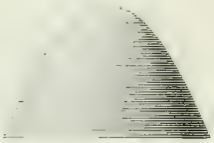

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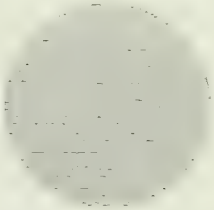
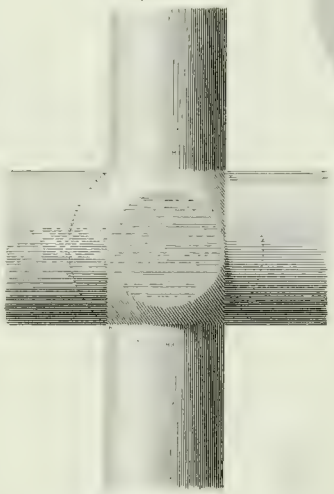


Fig. 6. N° 2.

Fig. 6. N° 1.

Fig. 6. N° 3.

Fig. 6. N° 4.



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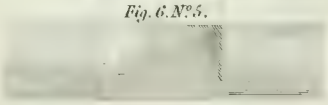

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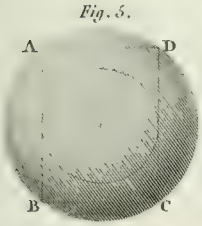

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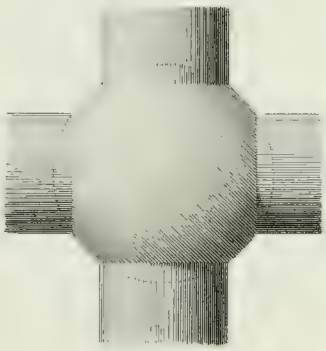

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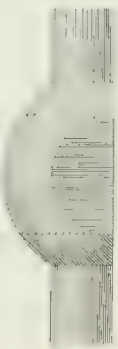
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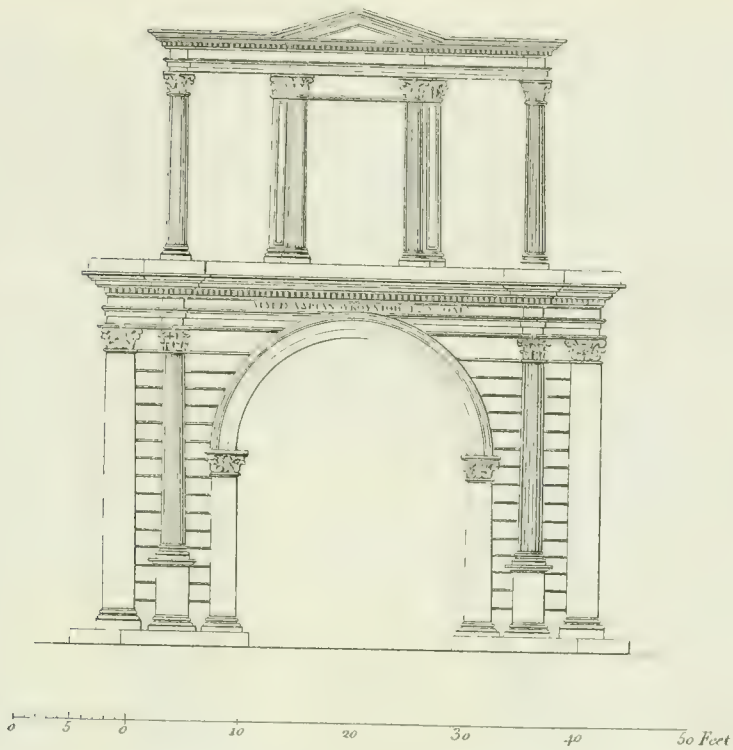

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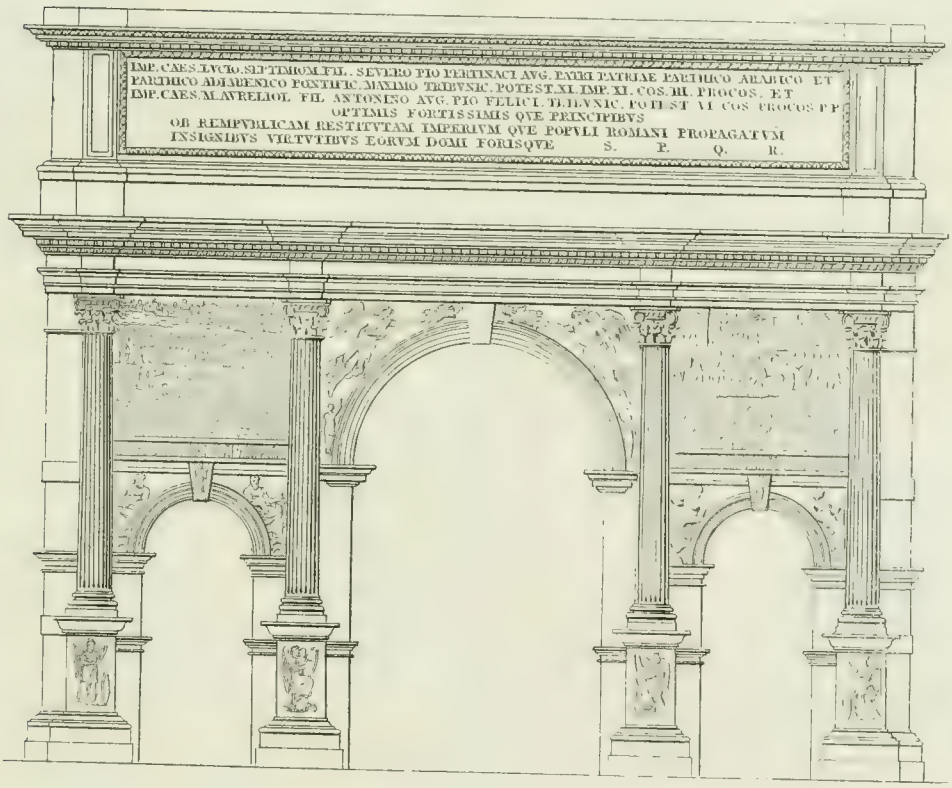
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IMP. CAES. M. AVRELIO. FIL. ANTONINO AVG. PIO FELICI. TRIBVNIC. POTEST. VI. COS. PROCOS. PP
OPTIMIS FORTISSIMIS QVE PRINCIPIBVS
OB REMPVBLICAM RESTITVTAM IMPERIVM QVE POPVLI ROMANI PROPAGATVM
INSIGNIBVS VIRTVTIBVS EORVM DOMI FORISQVE S. P. Q. R.

Fig. 1. The Arch of Adrian at Athens

Fig. 2. The Arch of Septimius Severus at Rome.

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Engraved by Wilson

Fig. 1.

Fig. 2.

Fig. 3

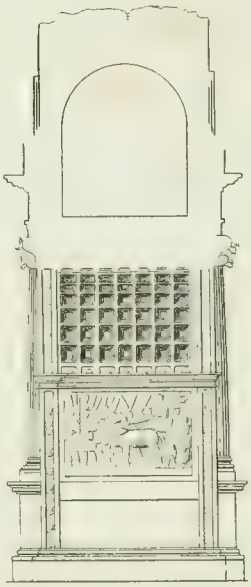


Fig. 1. The Arch of Constantine.

Fig. 2. The Arch of Titus.

Fig. 3. Section of the same.

Published as the Act directs, July 1st 1805, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.

PLATE XI.

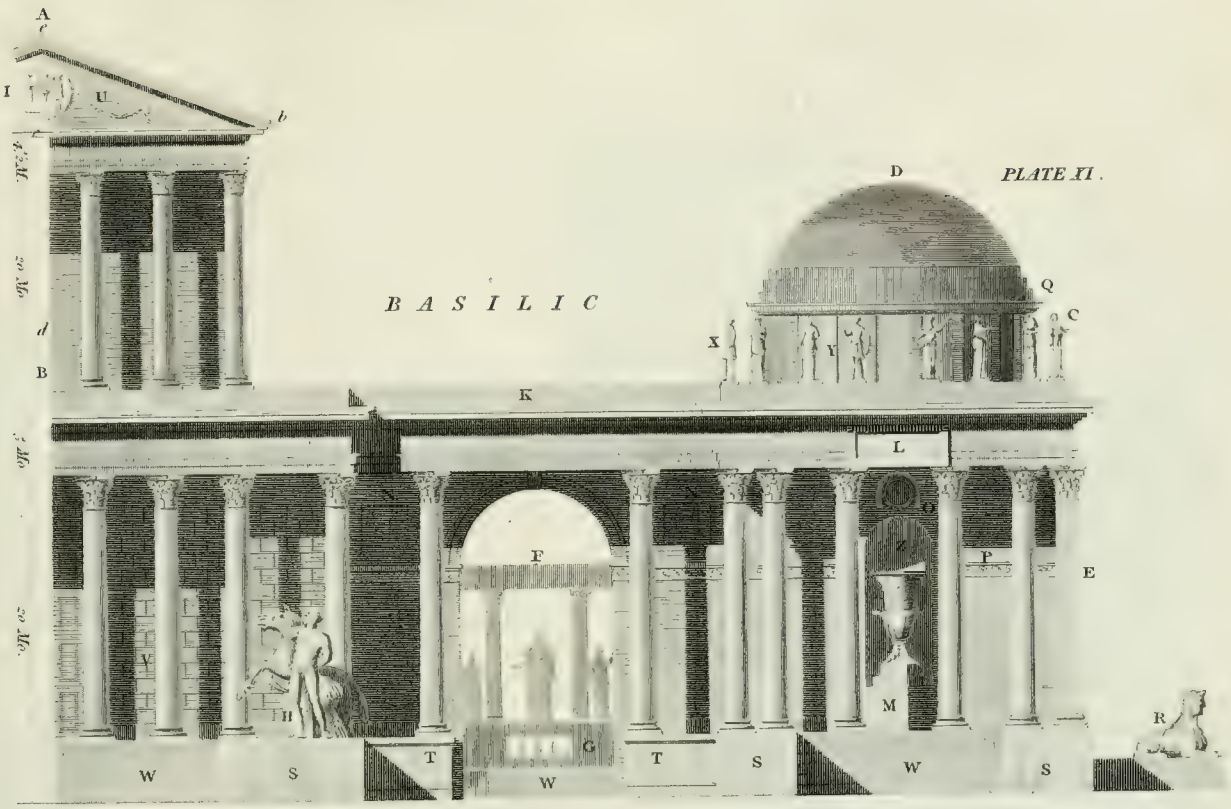
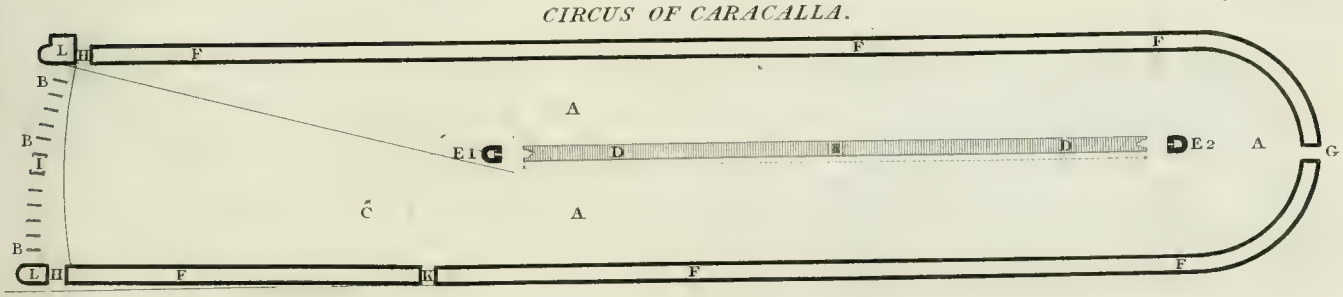


PLATE XII.

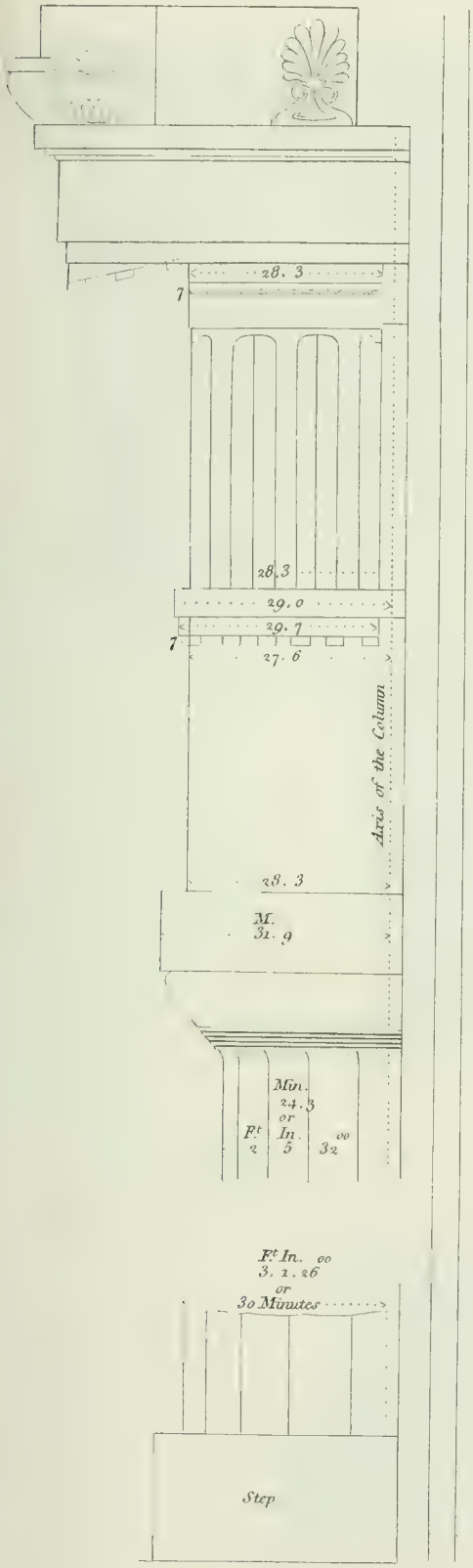
CIRCUS OF CARACALLA.

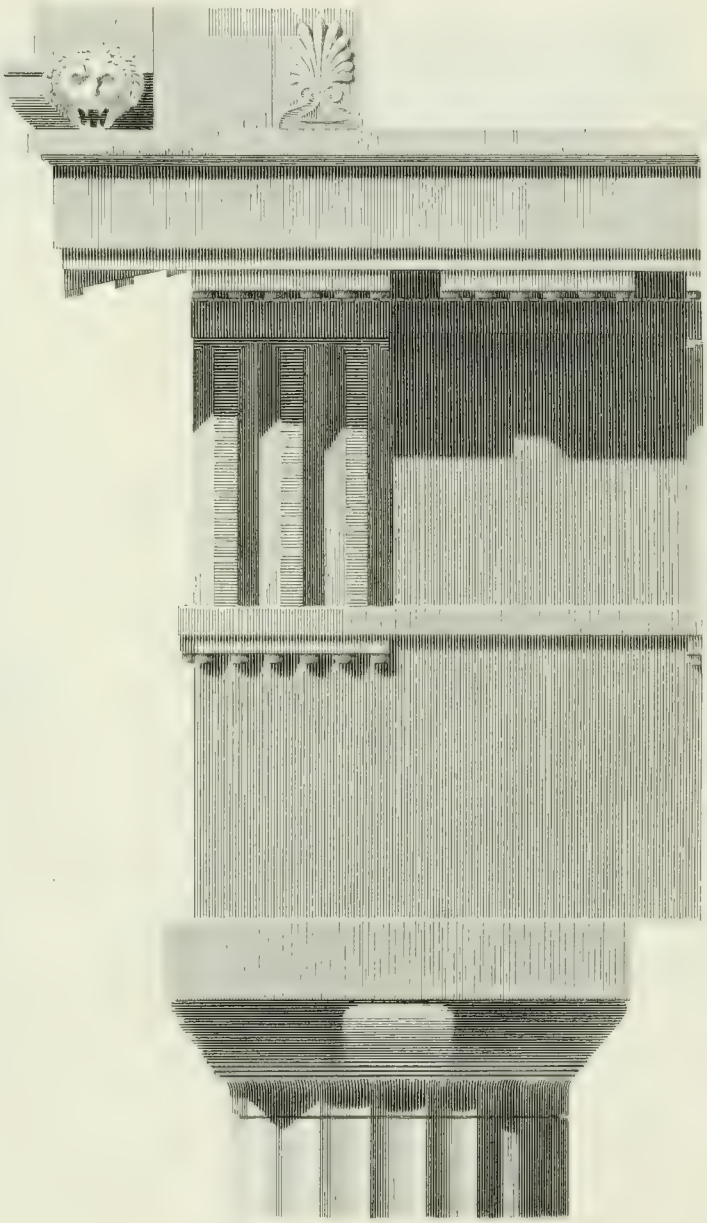


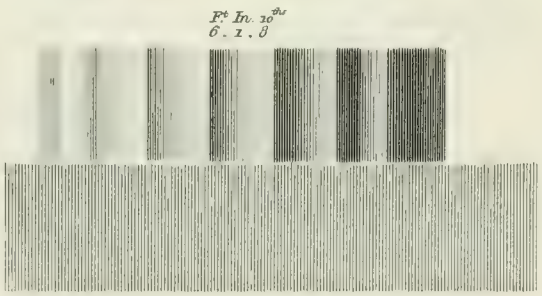
Published as the Act directs, 1800, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

J. Roffe, sculp.

THE DORIC ORDER, FROM THE TEMPLE OF MINERVA CALLED THE PARTHENON.







Published as the Act directs, May 2d 1802, by Longman & Rees, Paternoster Row.

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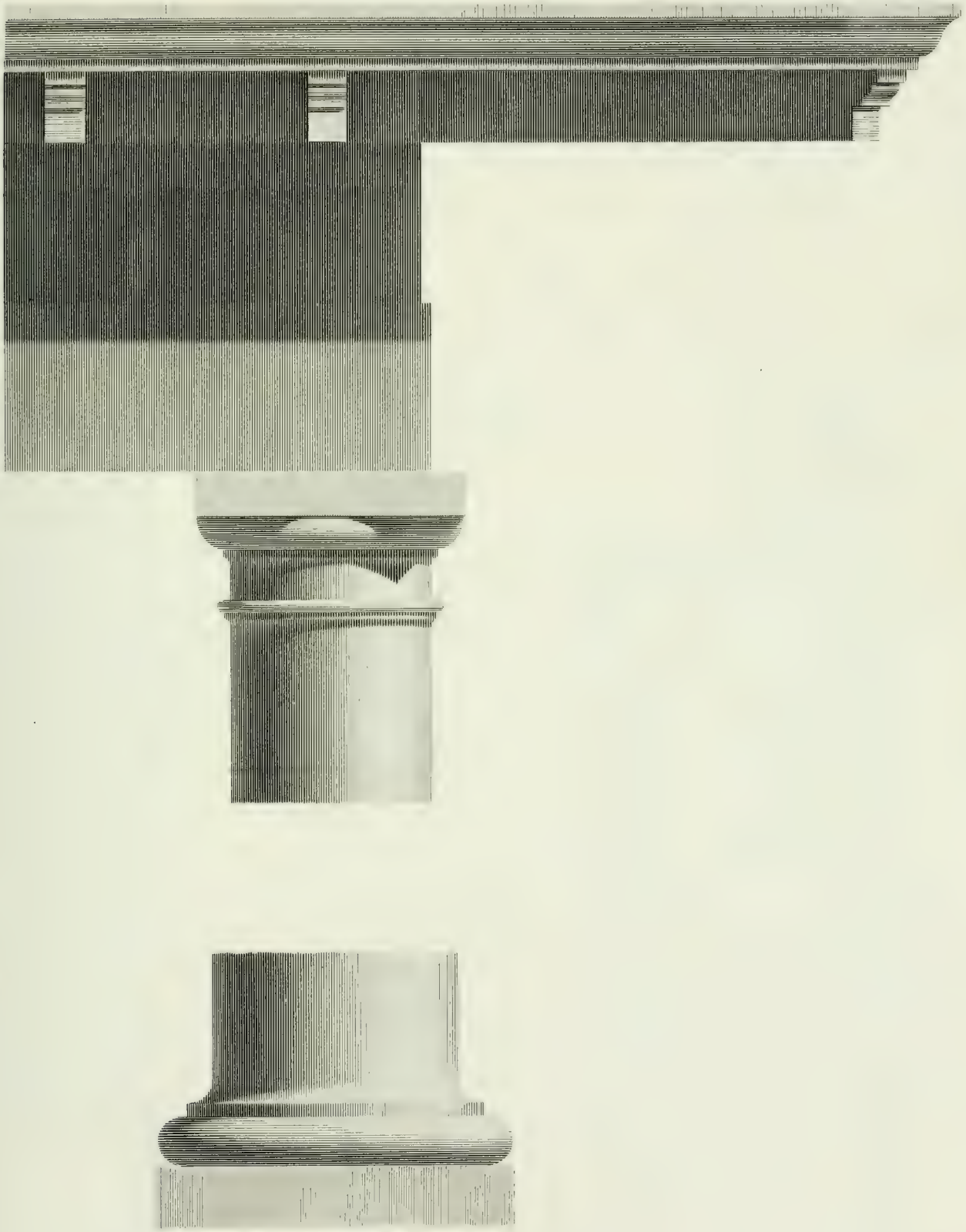
ARCHITECTURE.

THE TUSCAN ORDER, FROM THE CHURCH IN COVENT GARDEN.



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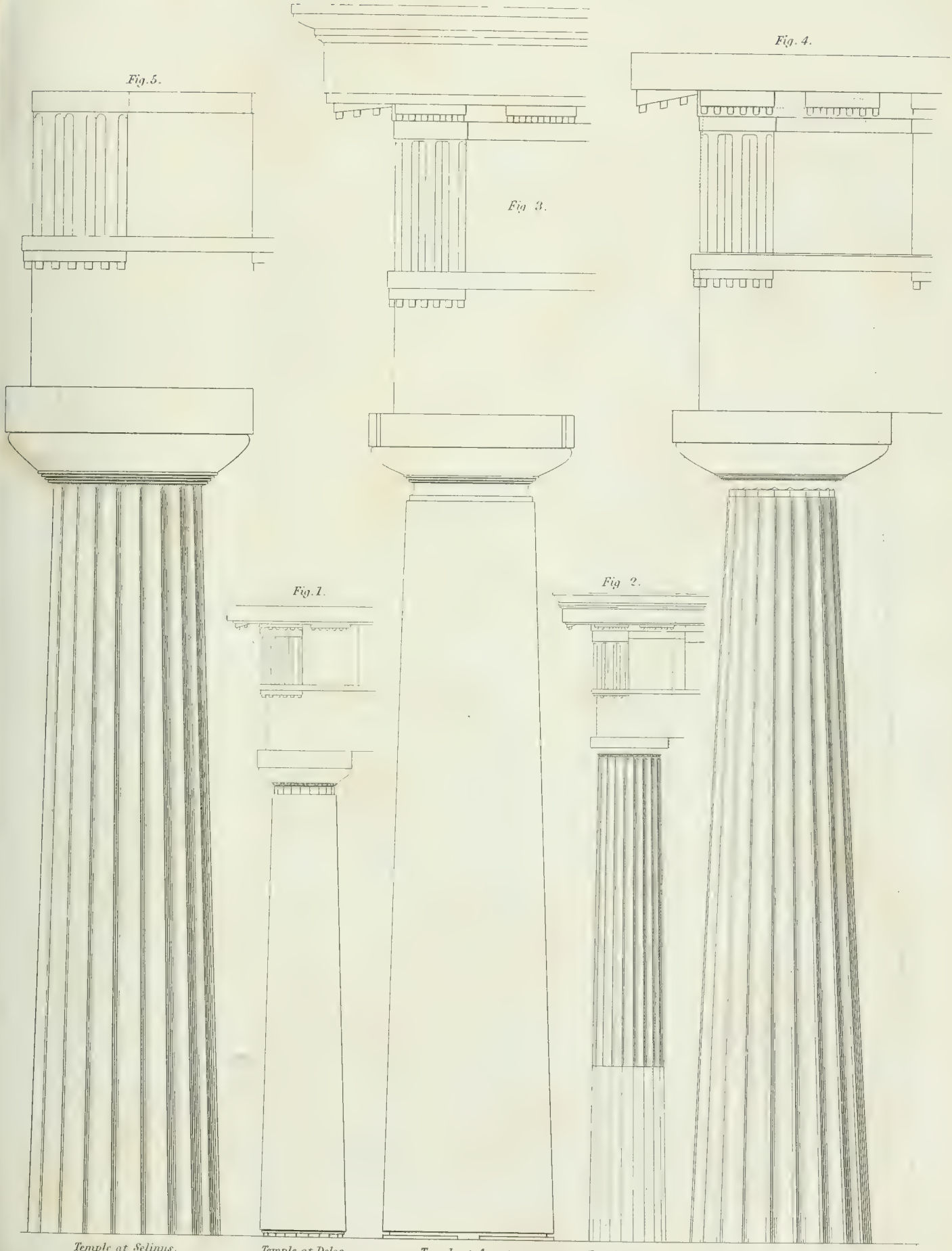
ARCHITECTURE.

DORIC.



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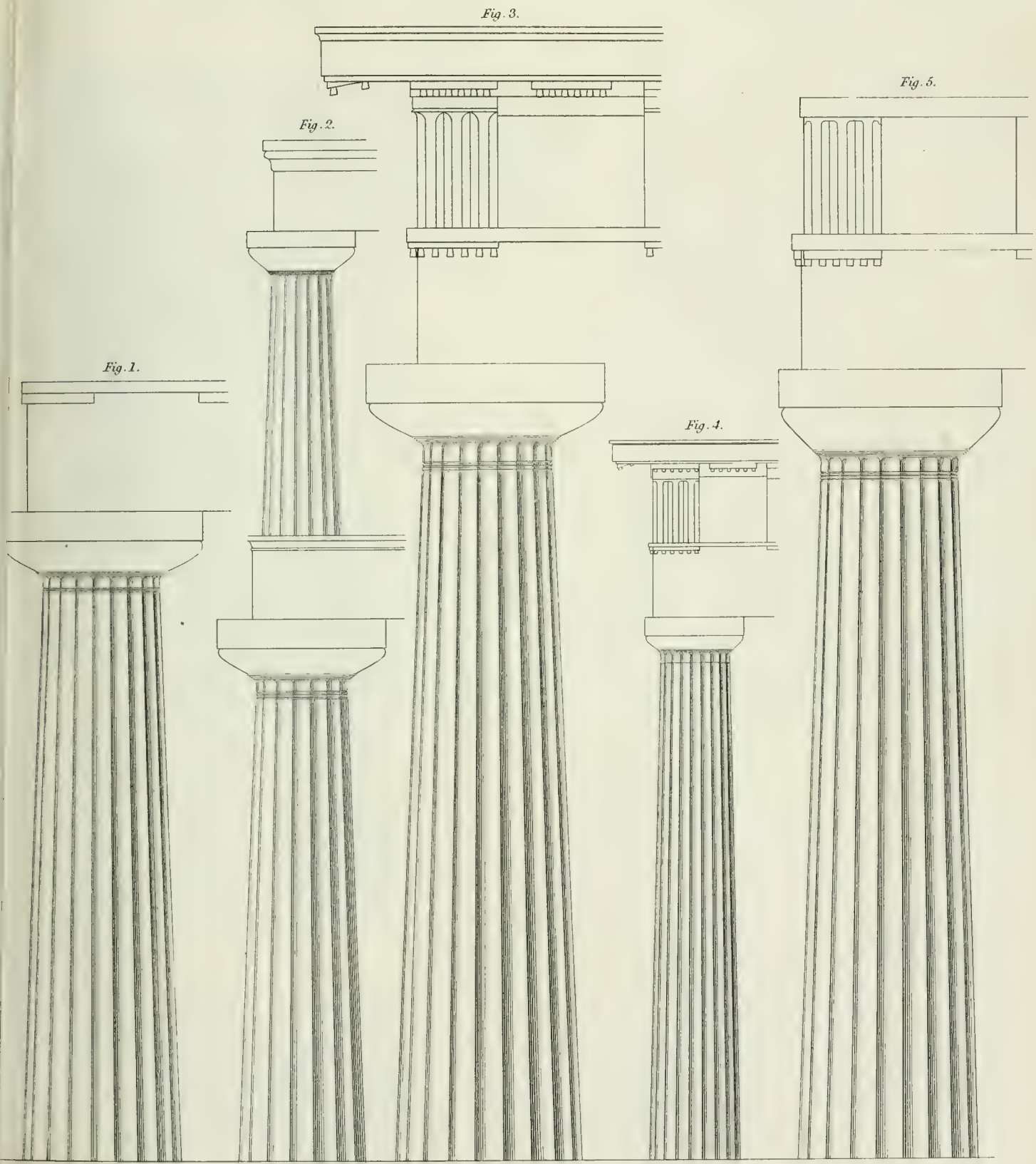
ARCHITECTURE.

DORIC.



Temple of Corinth.

Hypaethral Temple at Paestum.

Hypaethral Temple at Paestum.

Temple of Minerva at Sunium.

Temple of Minerva at Syracuse.

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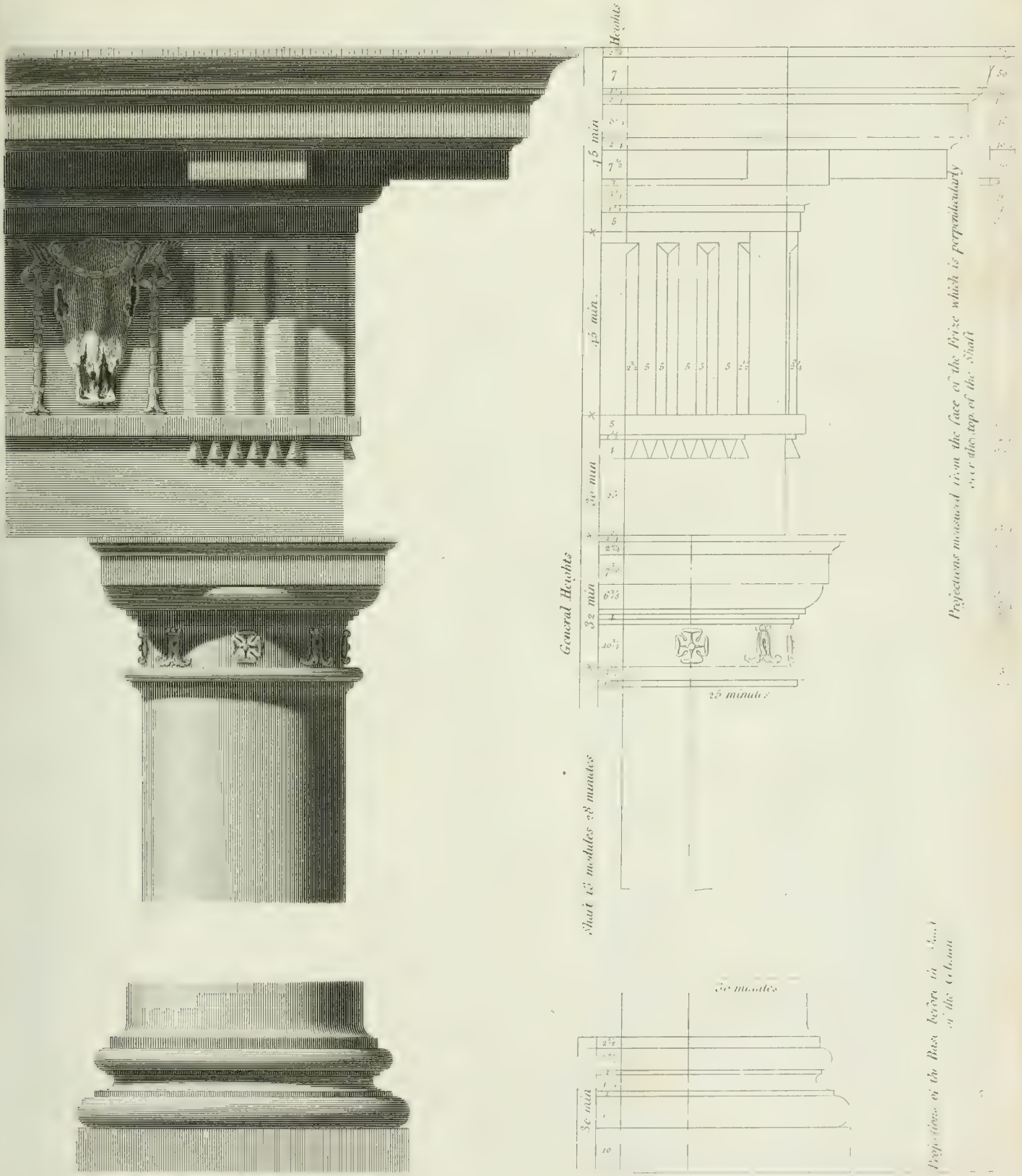
ARCHITECTURE.

THE DORIC ORDER ACCORDING TO SIR Wm CHAMBERS.


Heights
15 min
15 min.
30 min
General Heights
32 min
25 minutes
Shaft 13 modules 28 minutes
30 minutes
30 min
Projections measured from the face of the frize which is perpendicularly over the top of the Shaft
Projections of the Base before the Shaft & the Column

Published as the Act directs, Jan.y 2.d 1802, by Longman & Rees, Paternoster Row.

Engraved by Wilson Lowry

ARCHITECTURE.

DORIC.

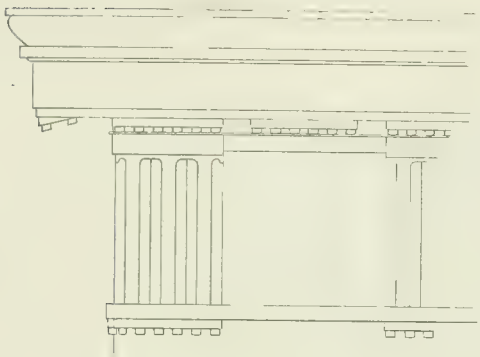


Fig. 5.

Fig. 3.

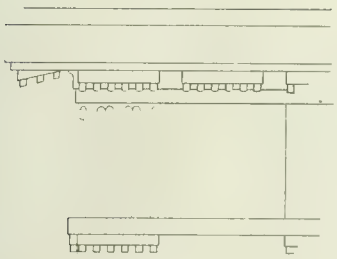
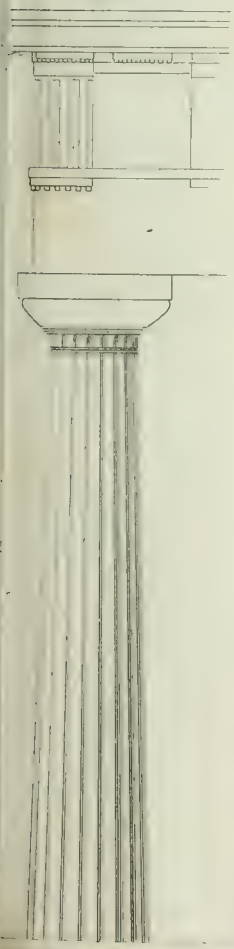
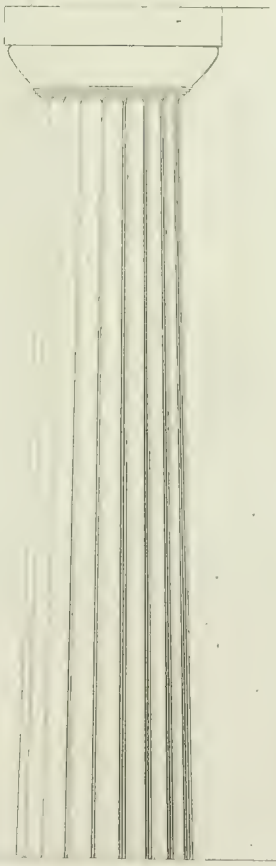


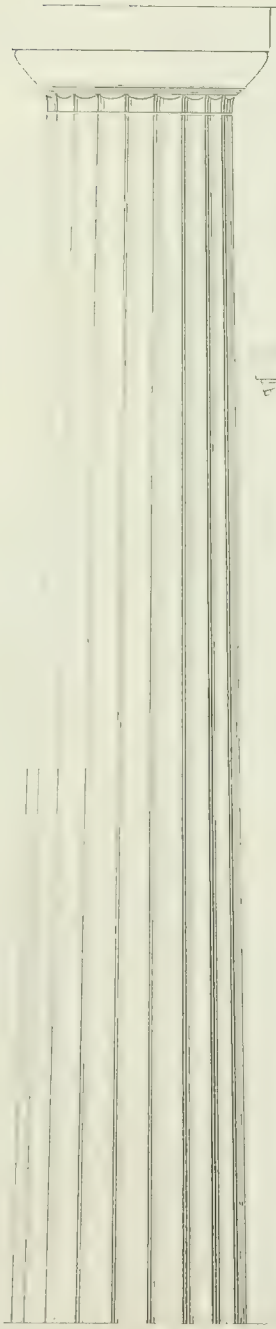
Fig. 4.



Temple of Jupiter Panellenius in Aegina.

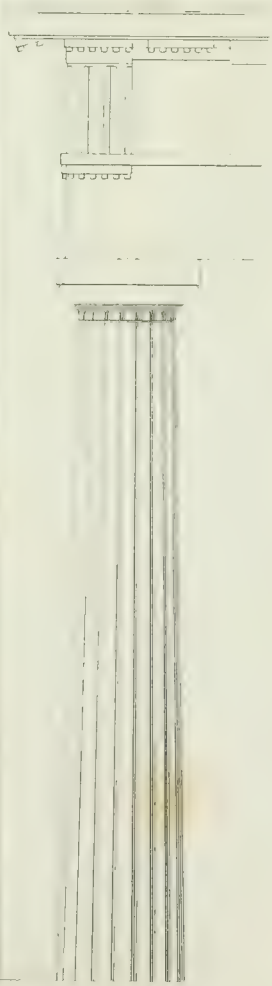


Temple of Concord at Agrigentum.



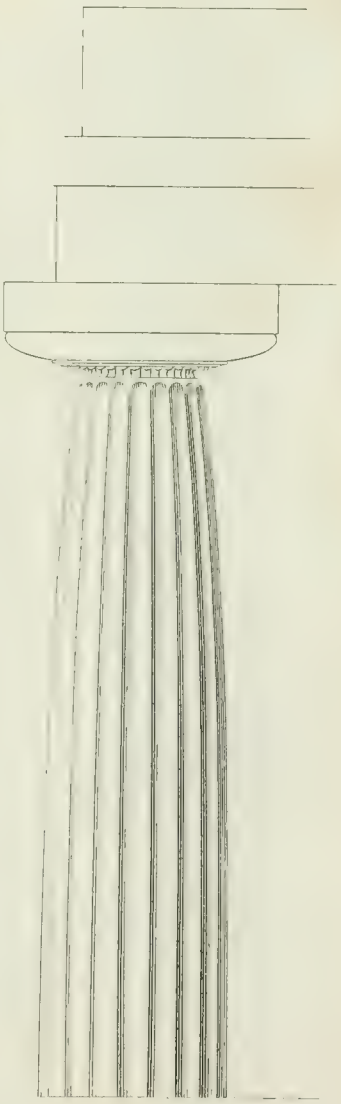
Temple of Minerva at Athens.

Fig. 2.



Temple of Theseus at Athens.

Fig. 1.



Pseudo dipteral Temple at Paestum.

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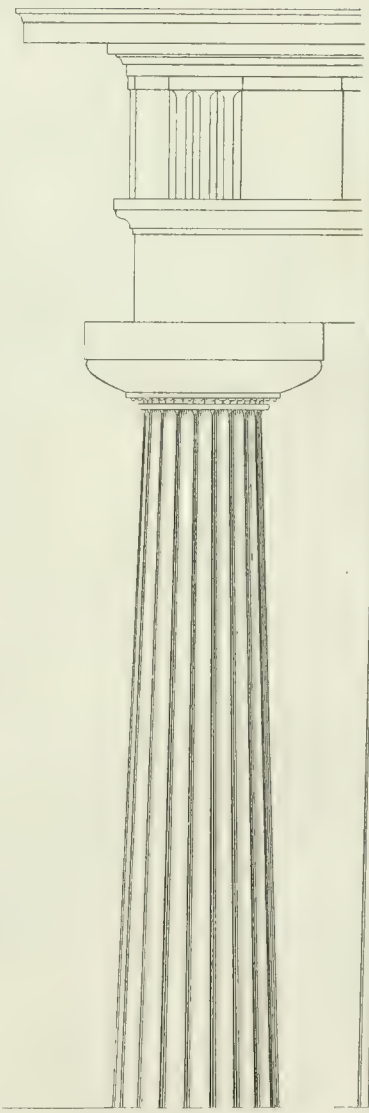
Engraved by Wilson Lowry.

DORIC.

Fig. 1.

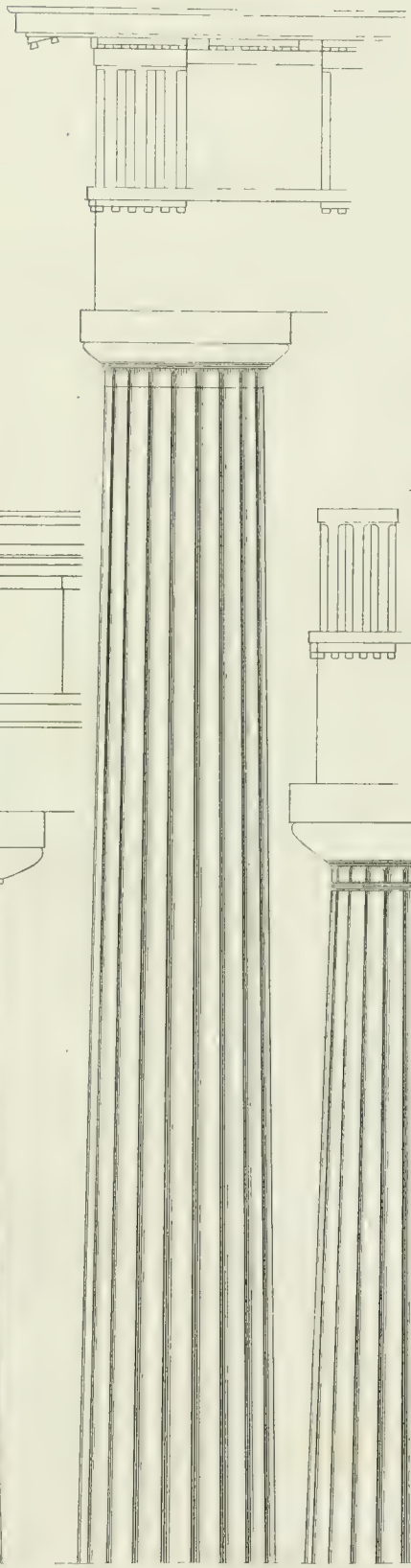
Theatre of Marcellus at Rome.

Fig. 2.



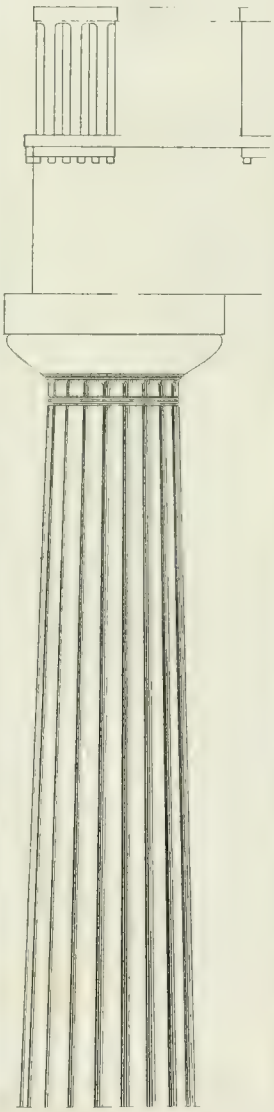
Hexastyle Temple at Paestum.

Fig. 3.



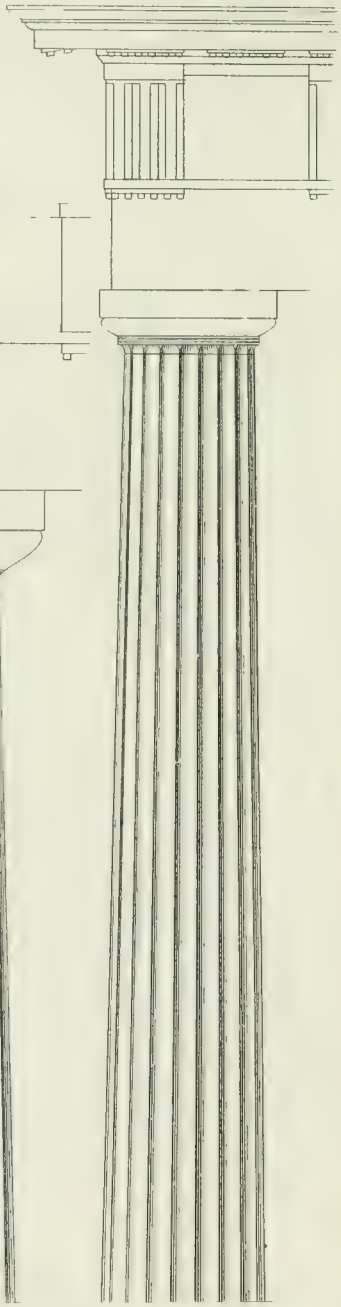
Temple of Jupiter Nemoeus between Argos & Corinth.

Fig. 4.



Temple of Juno Lucina at Agrigentum.

Fig. 5.



The Agora at Athens.

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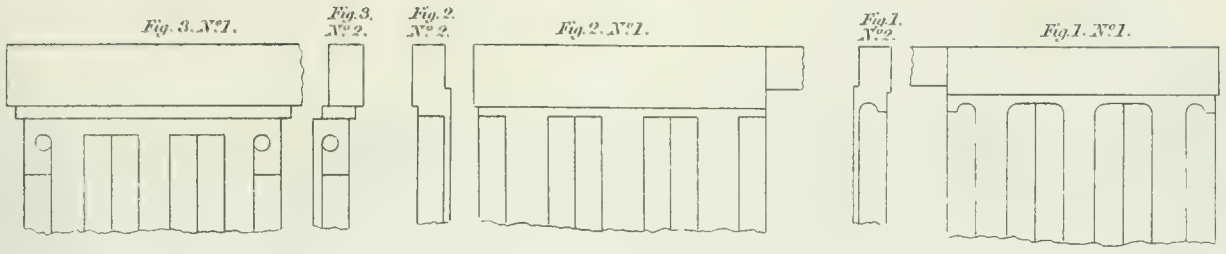
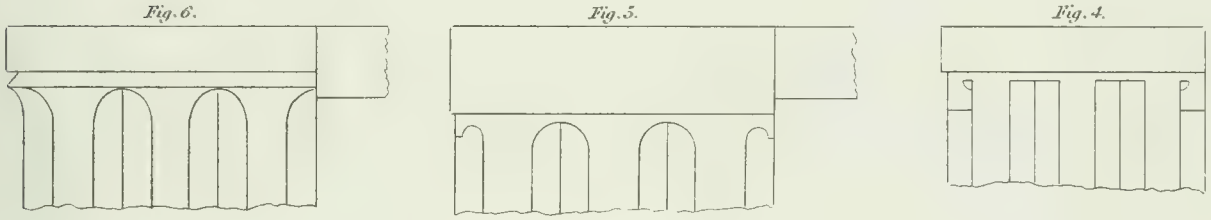
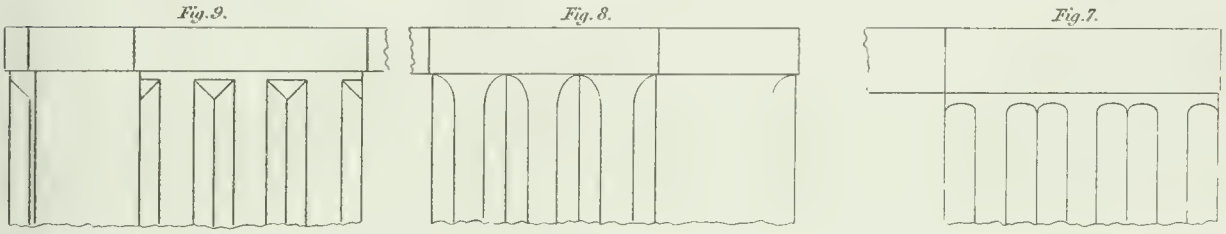
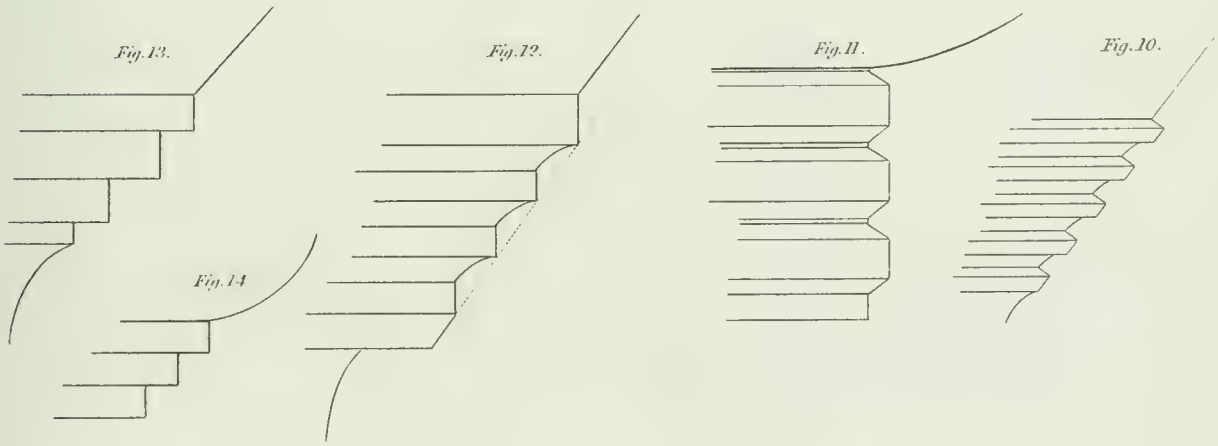
ARCHITECTURE.

DORIC ORDER.









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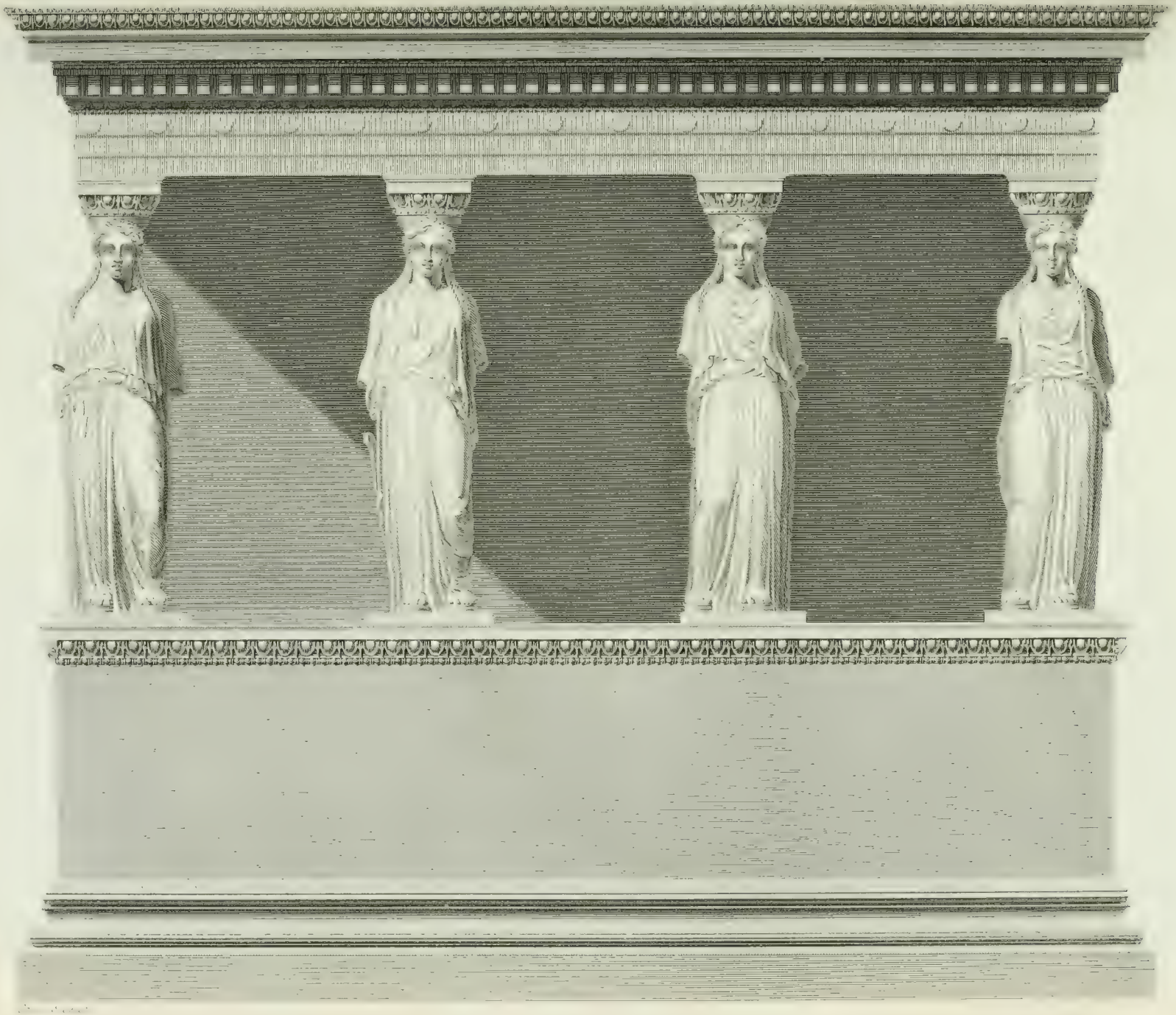
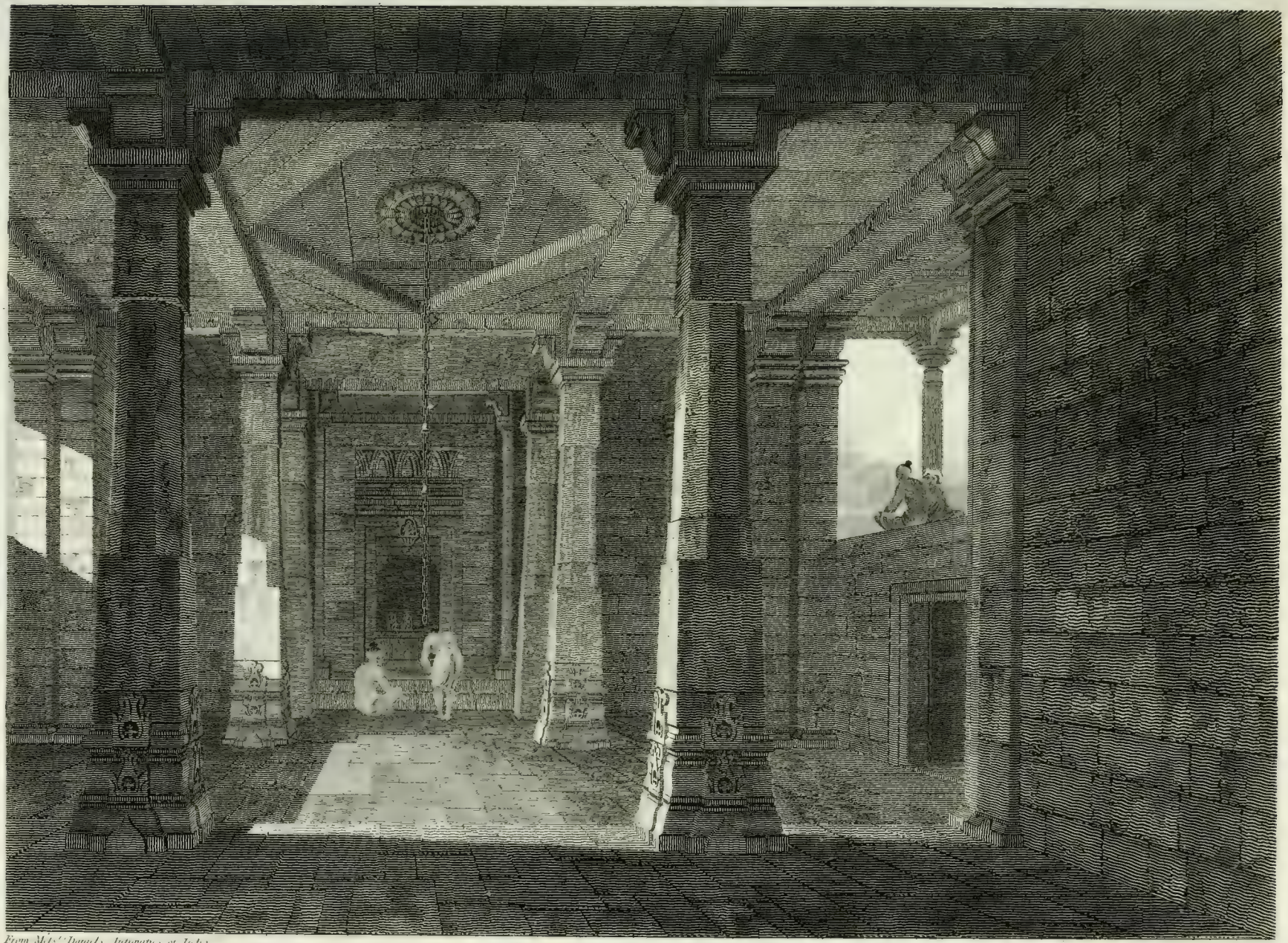
THE TEMPLE OF PANDROSUS AT ATHENS.



Published by Longman, Hurst, Rees & Orme, Paternoster Row.



From Mess.rs Daniell's Antiquities of India *Engraved by Wilson Lowry*

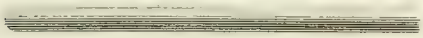
PART OF THE INTERIOR OF AN HINDOO TEMPLE, AT DEO, IN BAHAR.

Published as the Act directs May [illegible] by Longman & Rees Paternoster Row

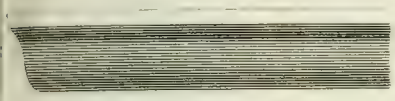
ARCHITECTURE.

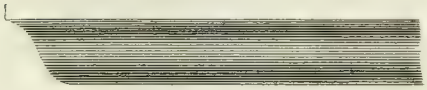
MOULDINGS &c.

Fillet Listel Annulet or Square.

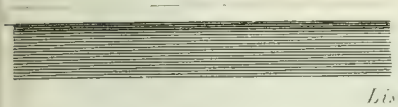


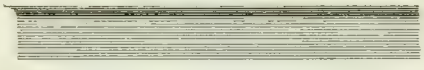
Astragal or Bead.



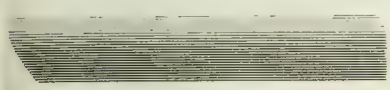


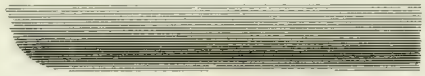
Cyma, Cyma Recta or Cymatium





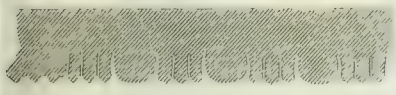
Listel and Fascia.



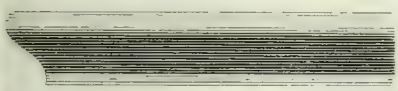


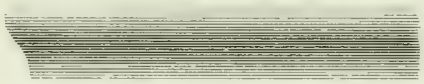
Echinus Ovolo or Quarter Round.

Echinus enriched



Sections of the Echinus.

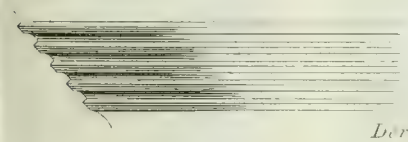




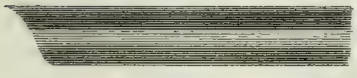
Lesbian Cyma Talon or Ogee.

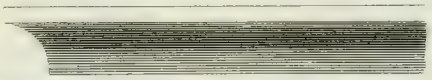
Talon enriched

Astragal or Bead enriched

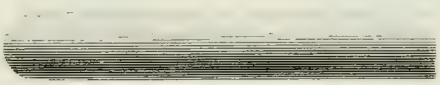


Doric Annulets.



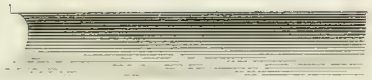


Cavetto or Hollow



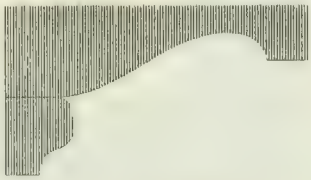
Torus

ROMAN.

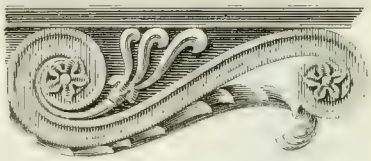


Scotia or Trochilos.

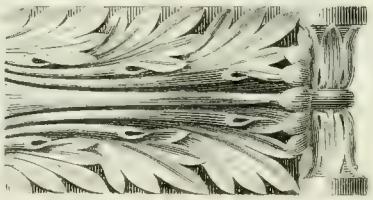
Cantaliver.



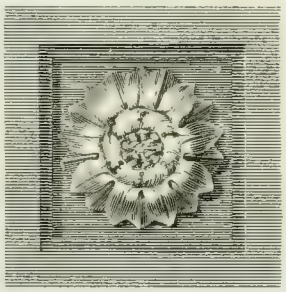
Corinthian Modillion.



Soffit of a Modillion.



Pannel between the Corinthian Modillions in the Soffit of the Corona.



Flower in the

Corinthian Abacus.

Published as the Act directs May 2d 1802, by Longman & Rees Paternoster Row.

Engraved

ARCHITECTURE.

JOINERY.

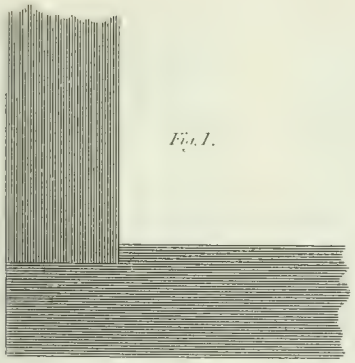


Fig. 1.

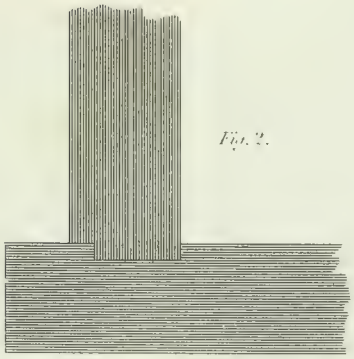
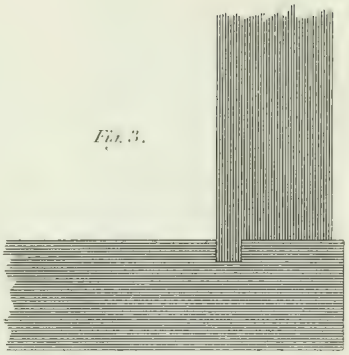


Fig. 2.



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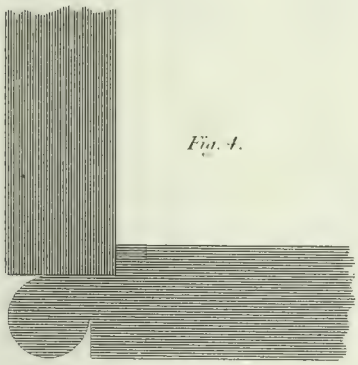

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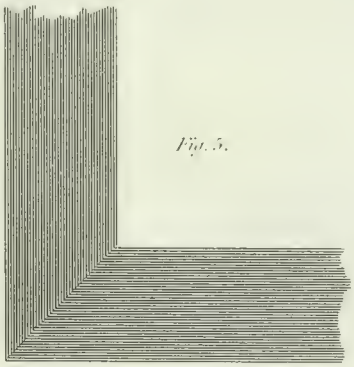

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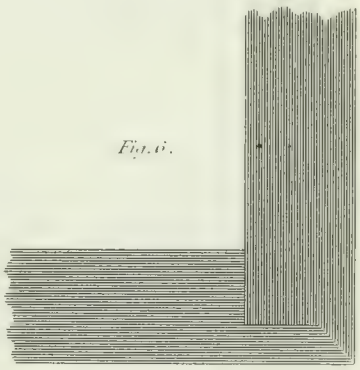

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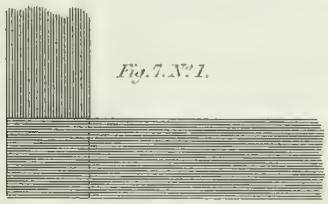

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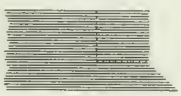
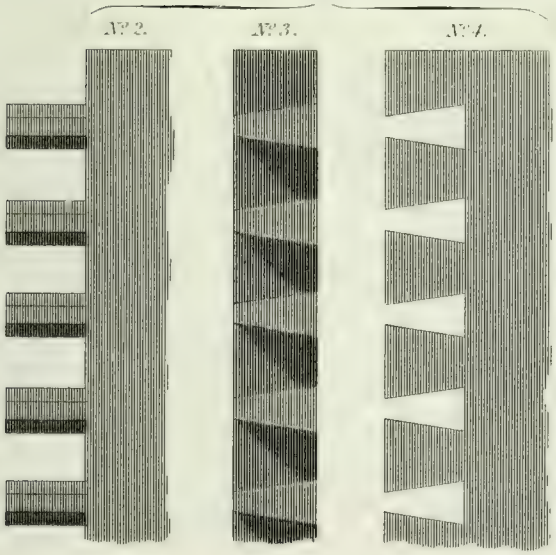
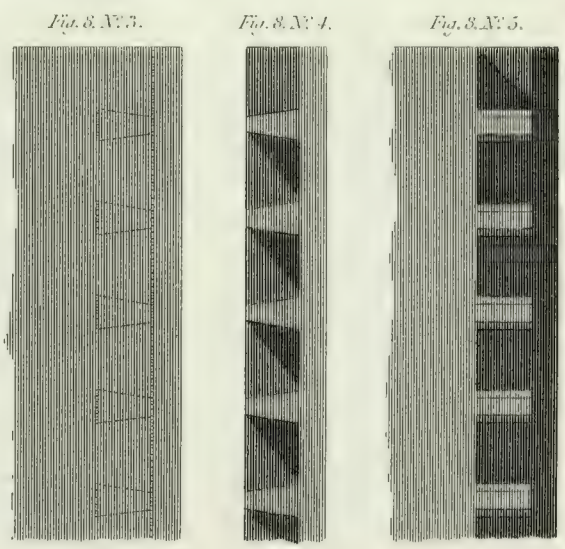


Fig. 8. N°. 1.

Fig. 8. N°. 2.





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JOINERY.

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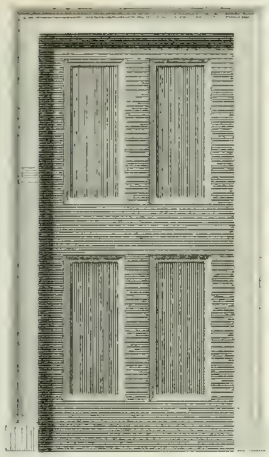

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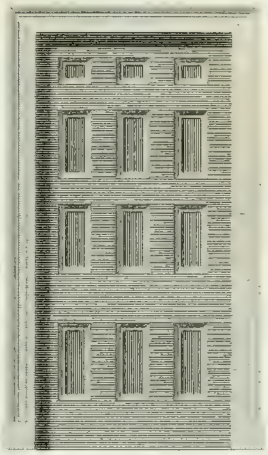

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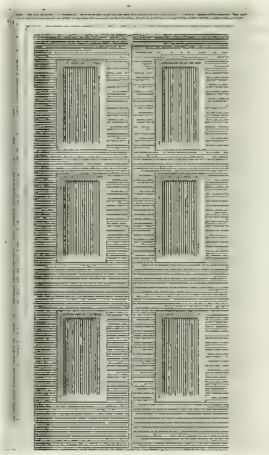

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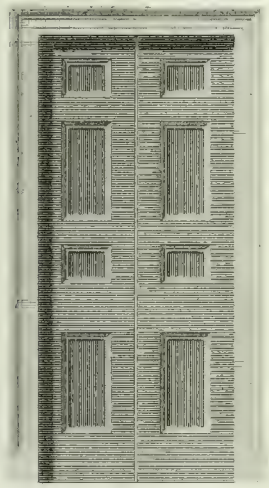

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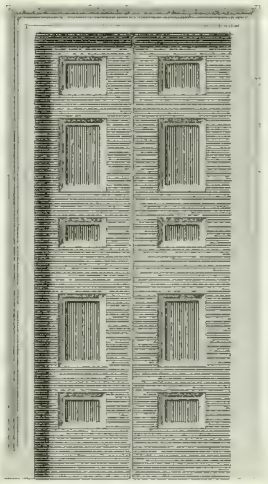

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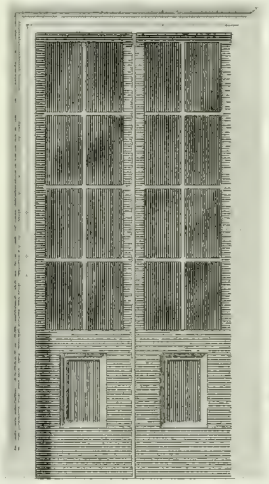

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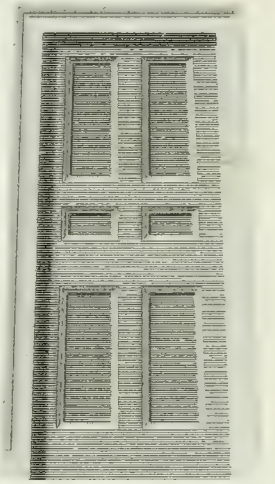

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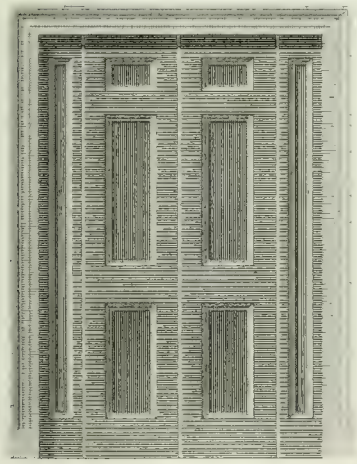

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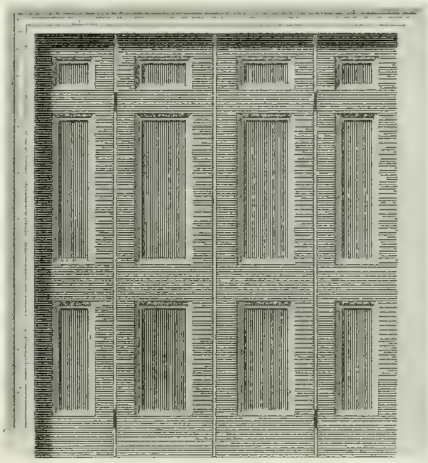

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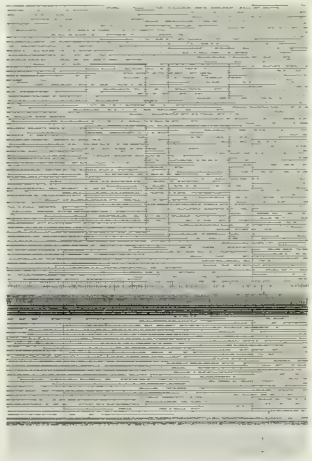

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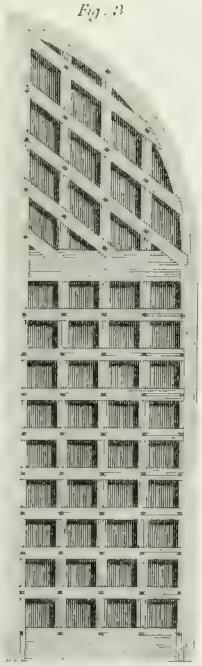
DOOR.

Fig. 3



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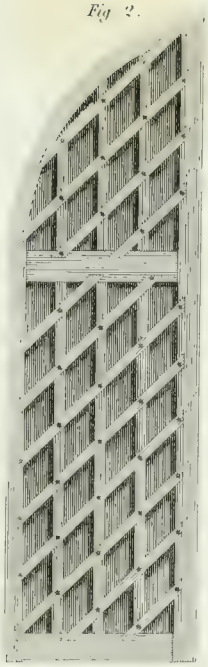

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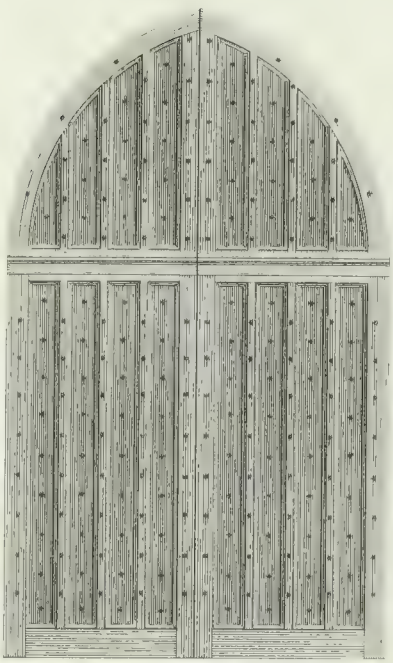

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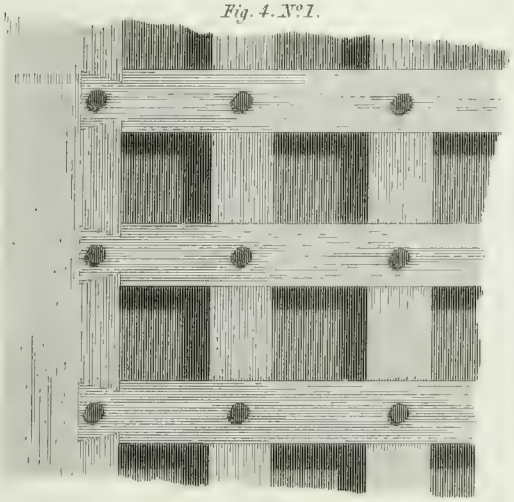

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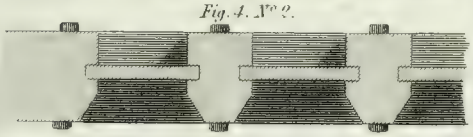
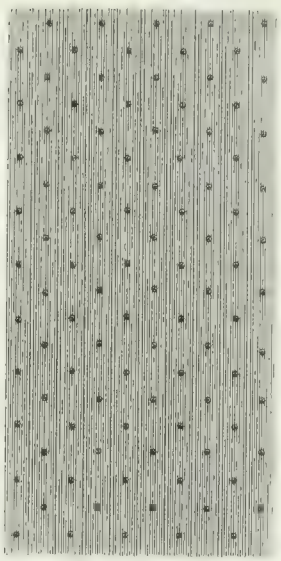


Fig. 5. N° 1.

Fig. 5. N° 2.



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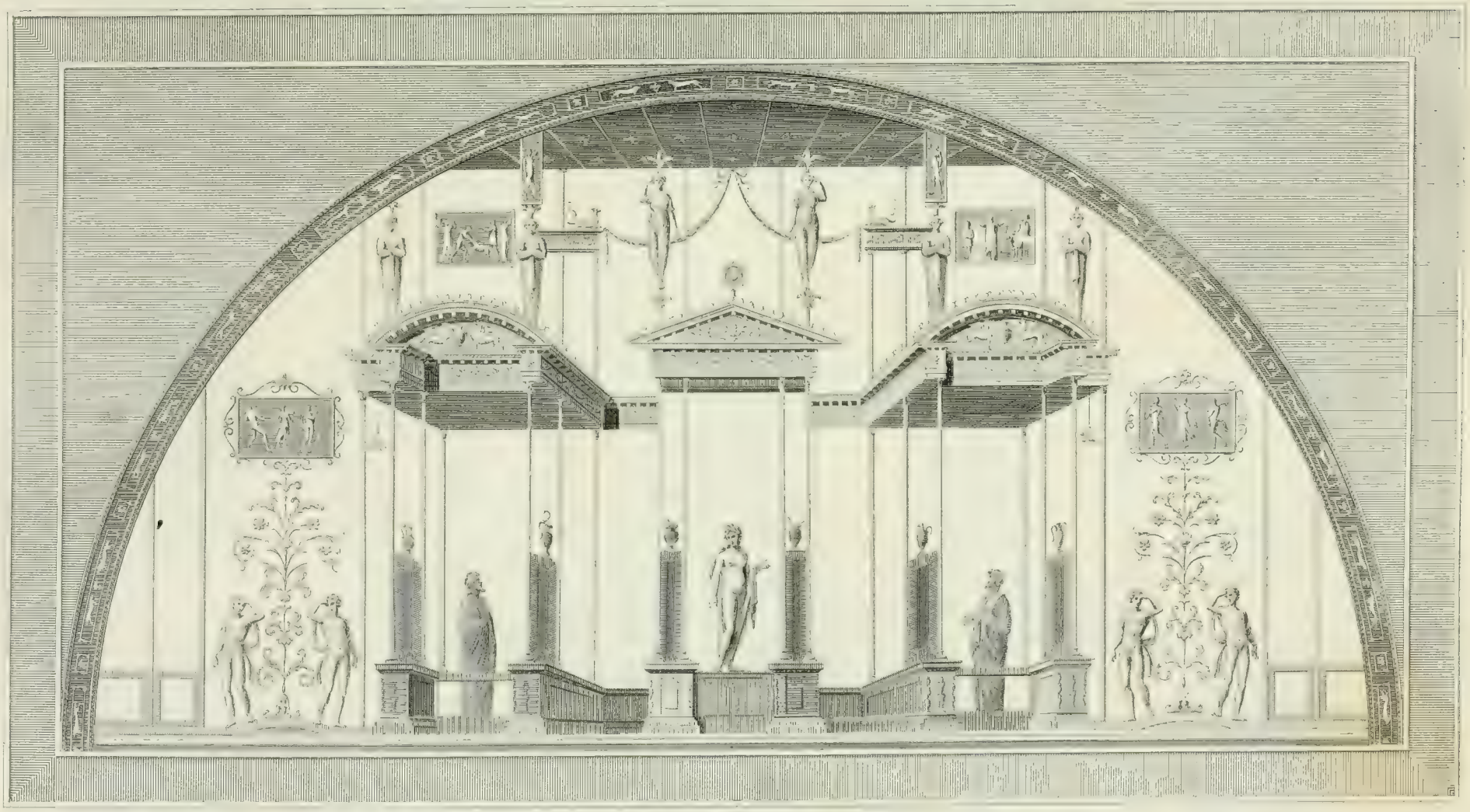
PAINTING FROM THE BATHS OF TITUS.



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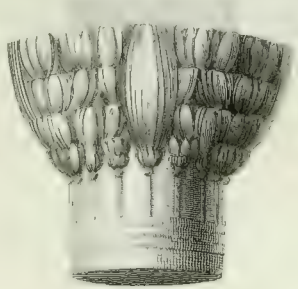
J. Rolfe sculp.

EGYPTIAN CAPITALS.

Fig 1

Fig 2



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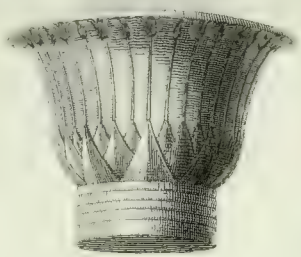

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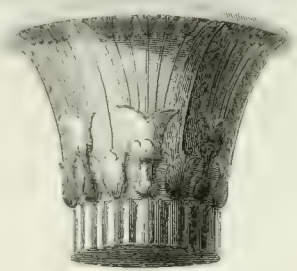
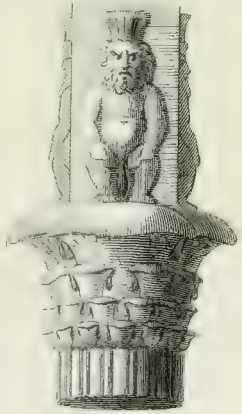


Fig 5

Fig 9



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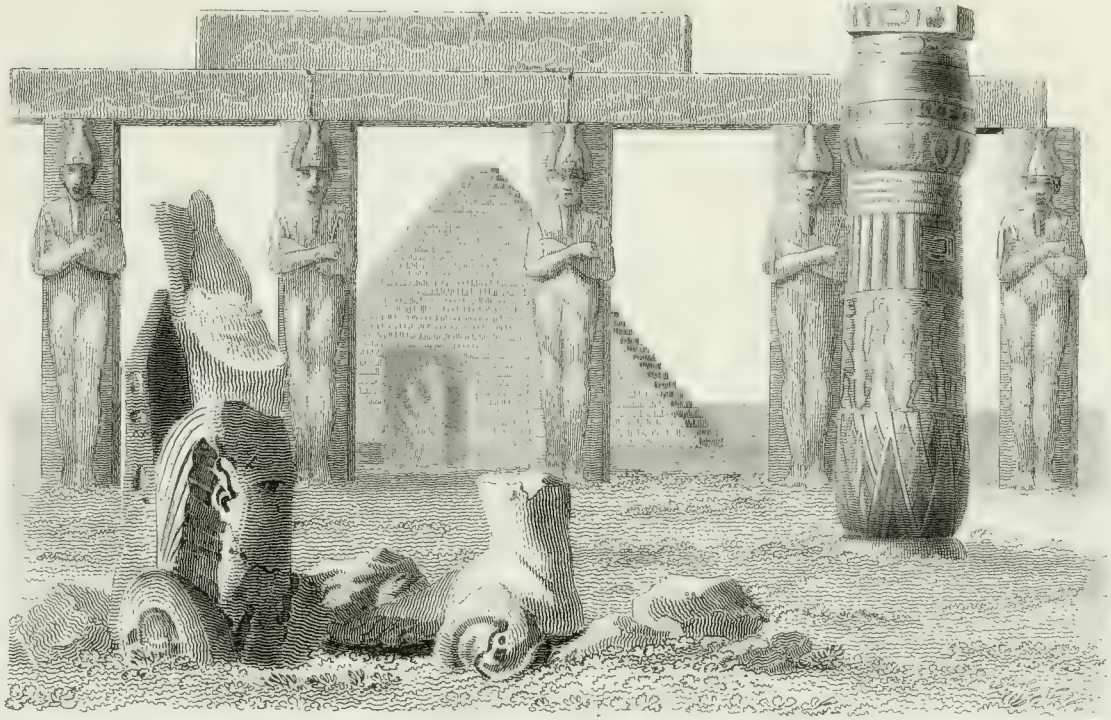

Fig 8.

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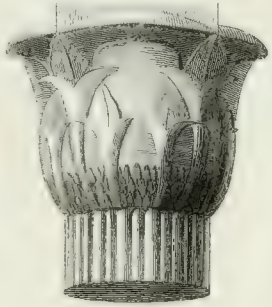

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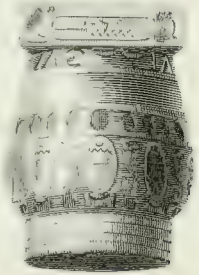

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CORINTHIAN AND COMPOSITE CAPITALS.

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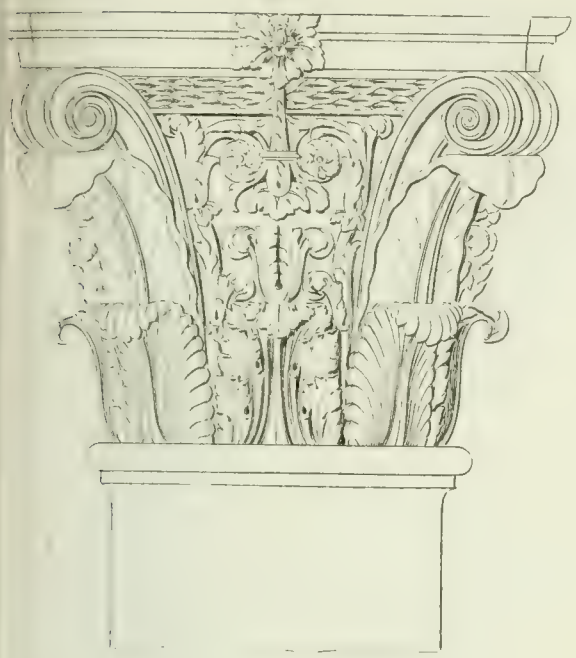

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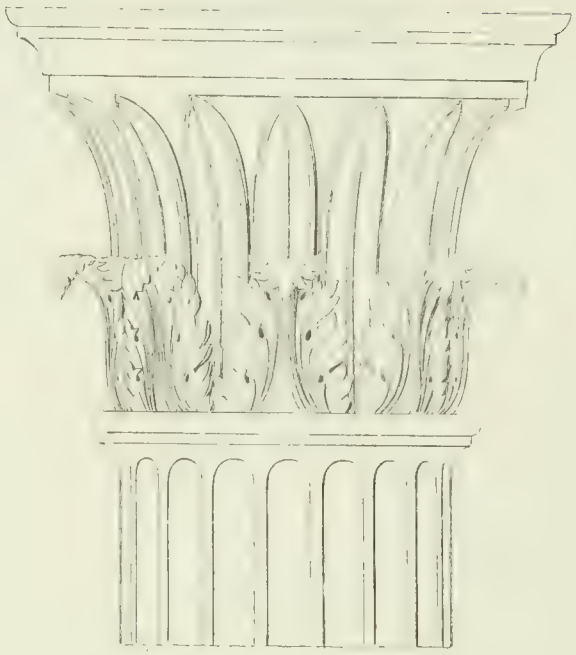

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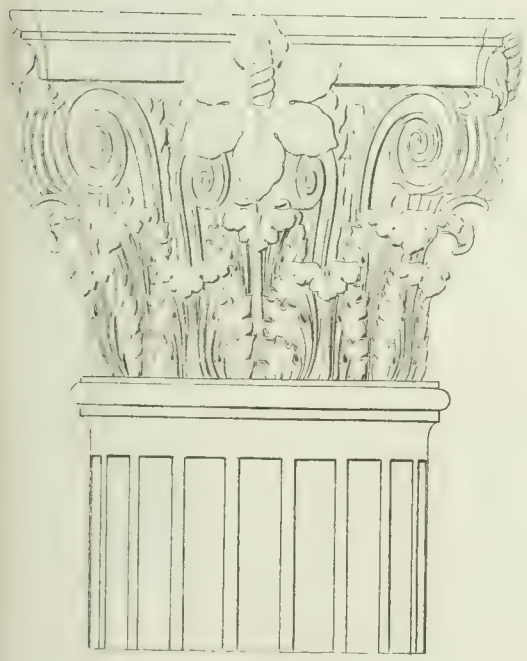

Fig. 4.

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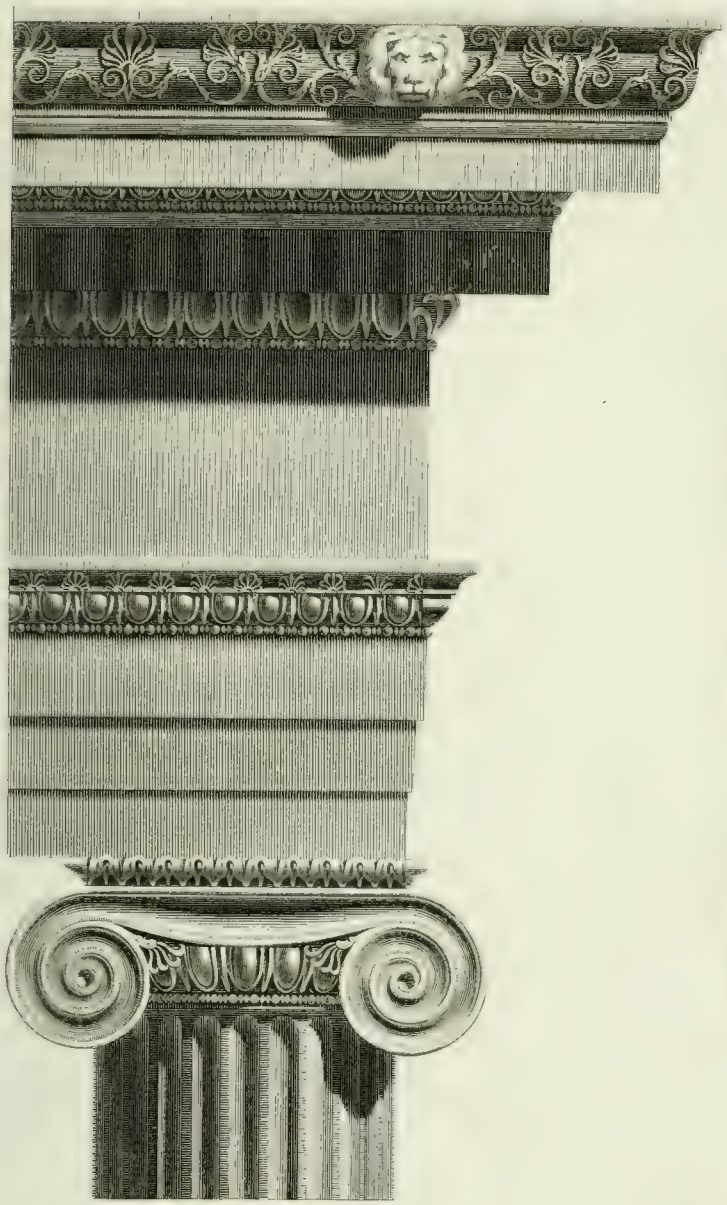
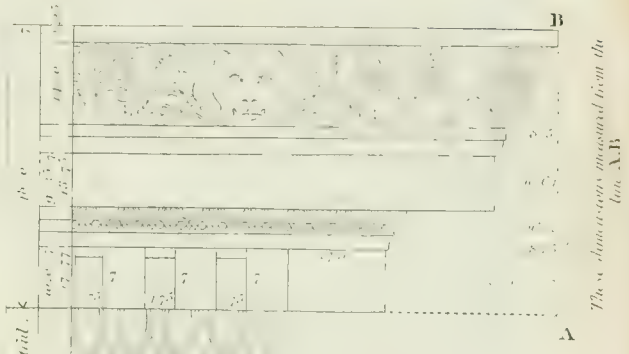
FROM THE TEMPLE OF MINERVA POLIAS, AT PRIENE.

IONIC ORDER.





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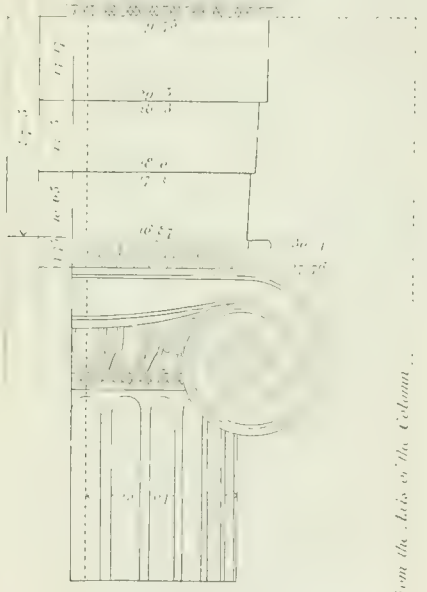

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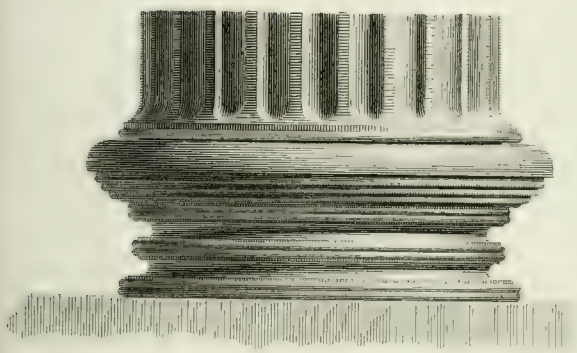

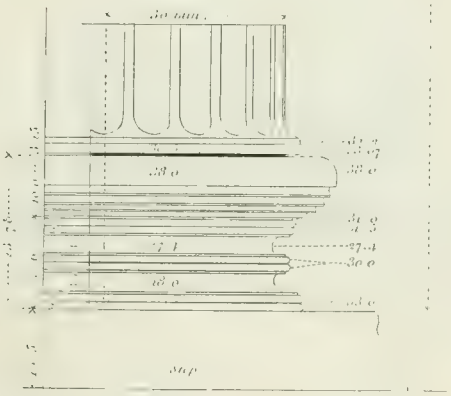

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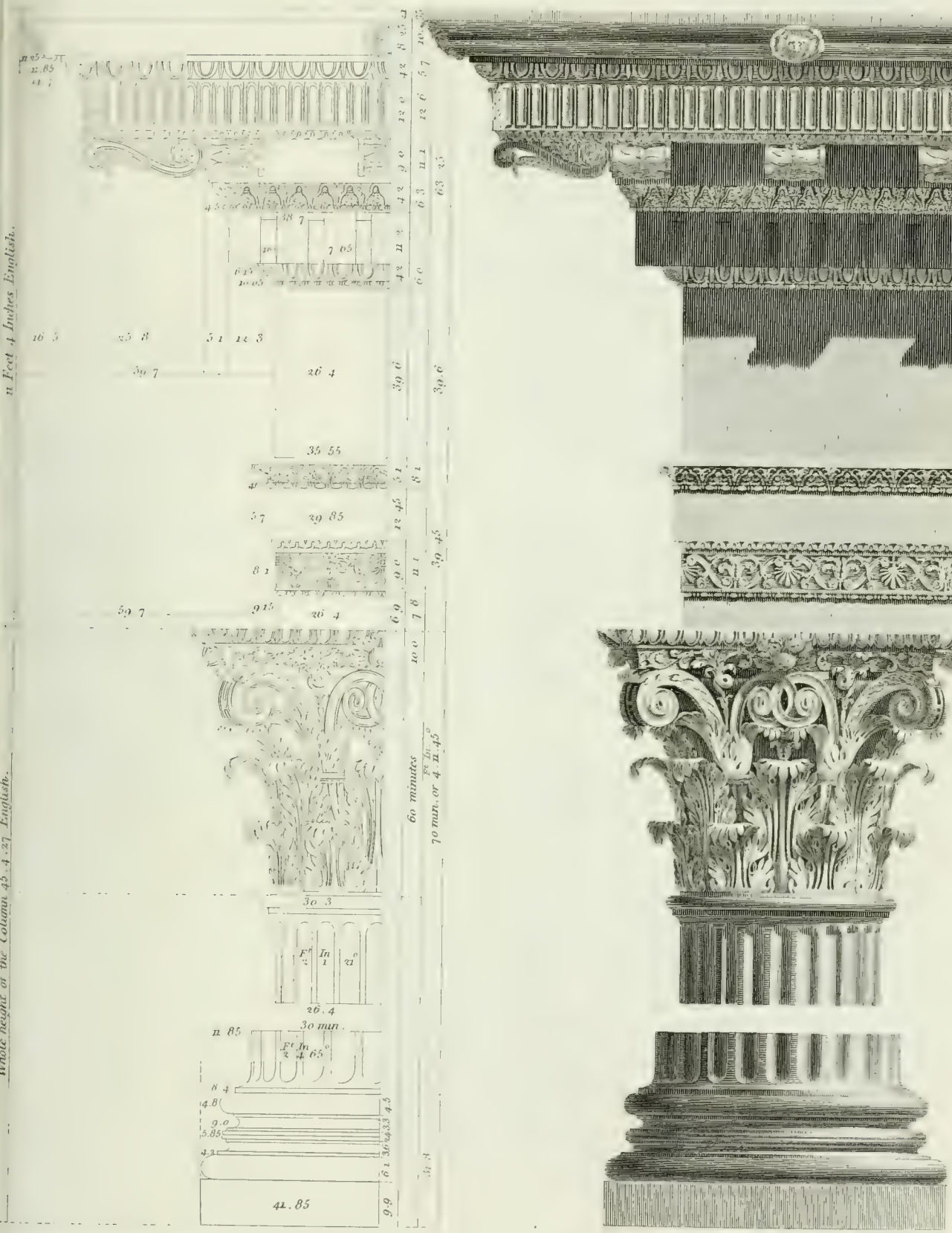
ARCHITECTURE.

FROM THE TEMPLE OF JUPITER STATOR IN ROME.

THE CORINTHIAN ORDER.



The Entablature and Capital drawn by Wilson Lowry from a Cast in the Poſſeſsion of John Soane Esq.r R.A.
The Dimensions reduced to Minutes and English feet from Palladio.

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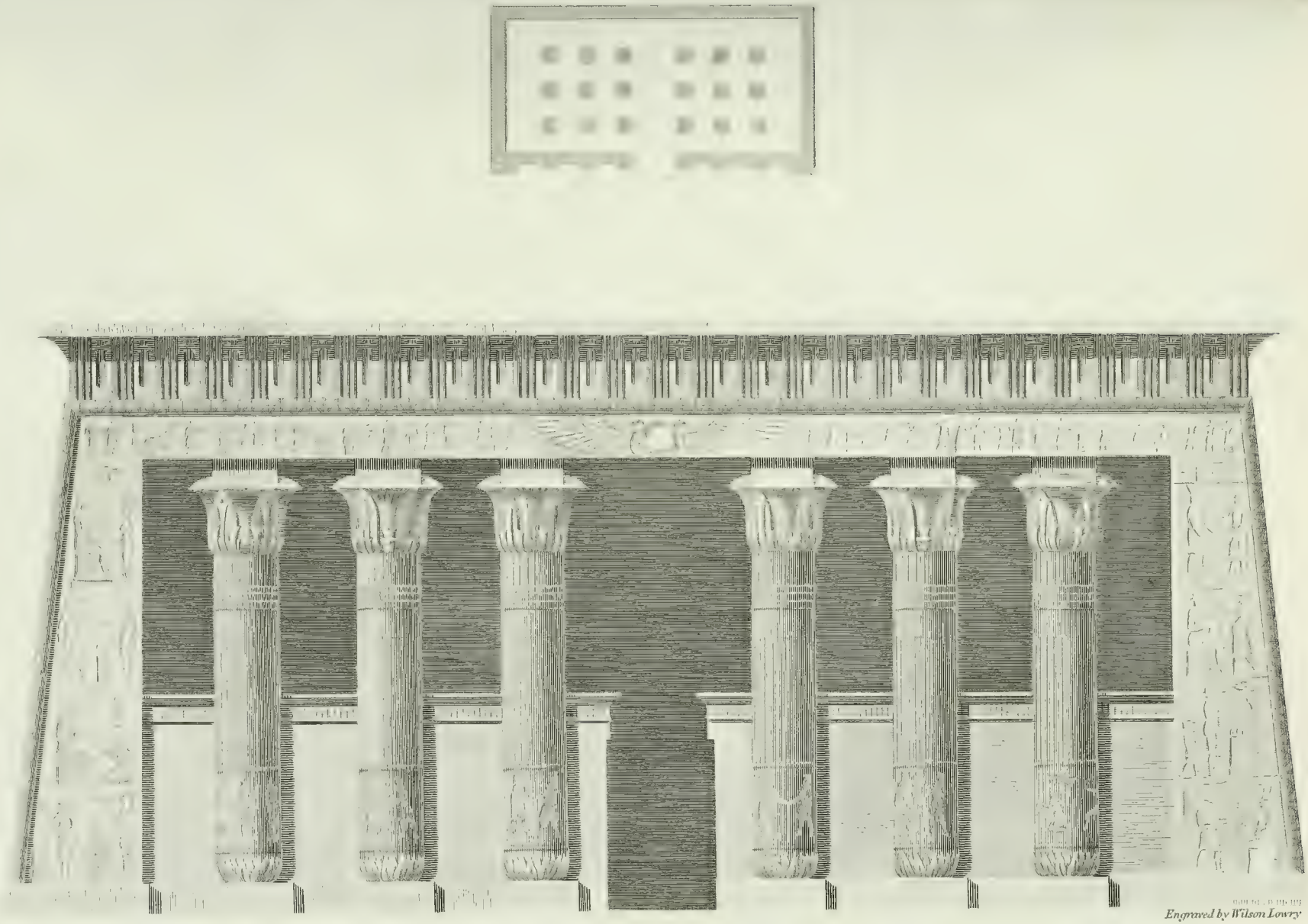

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PLAN AND ELEVATION OF A PORTICO AT LATOPOLIS.

Published as the Act directs, 1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

From Stewart *Engraved by Wilson Lowry.*

EASTERN PORTICO OF THE PARTHENON ON THE ACROPOLIS OF ATHENS.

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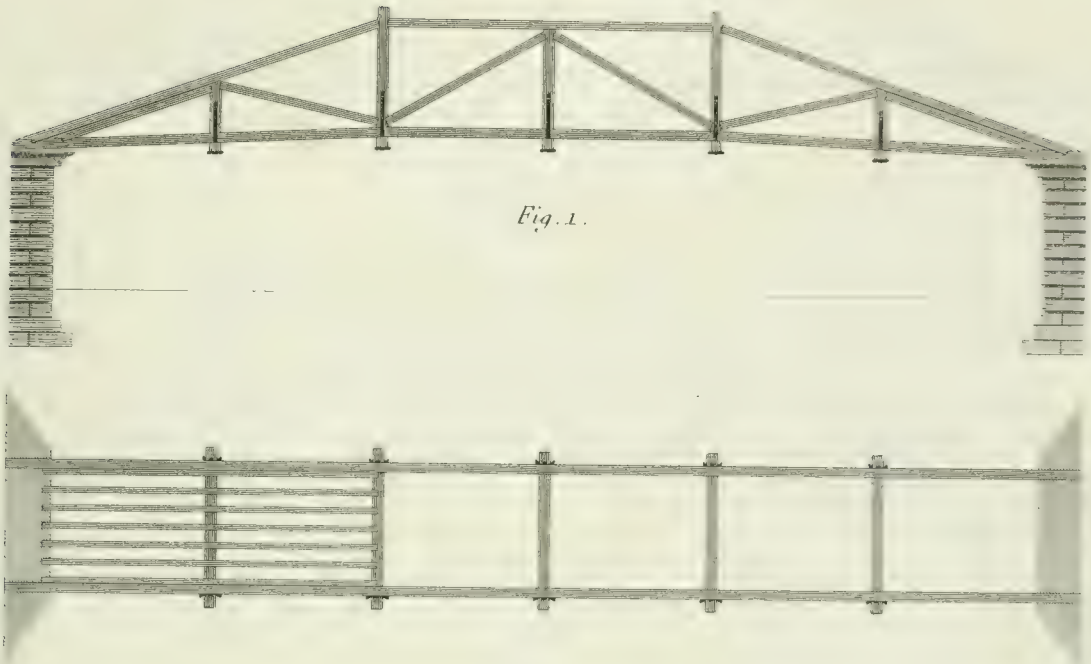
BRIDGES.



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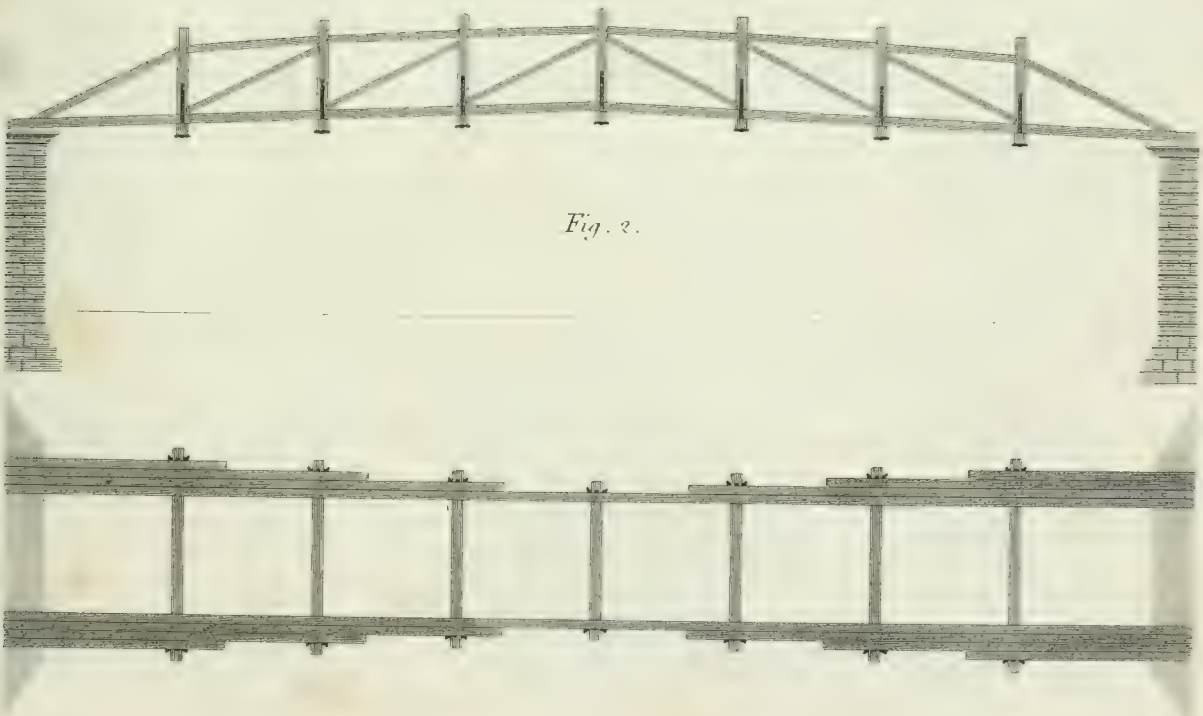

Fig. 2.

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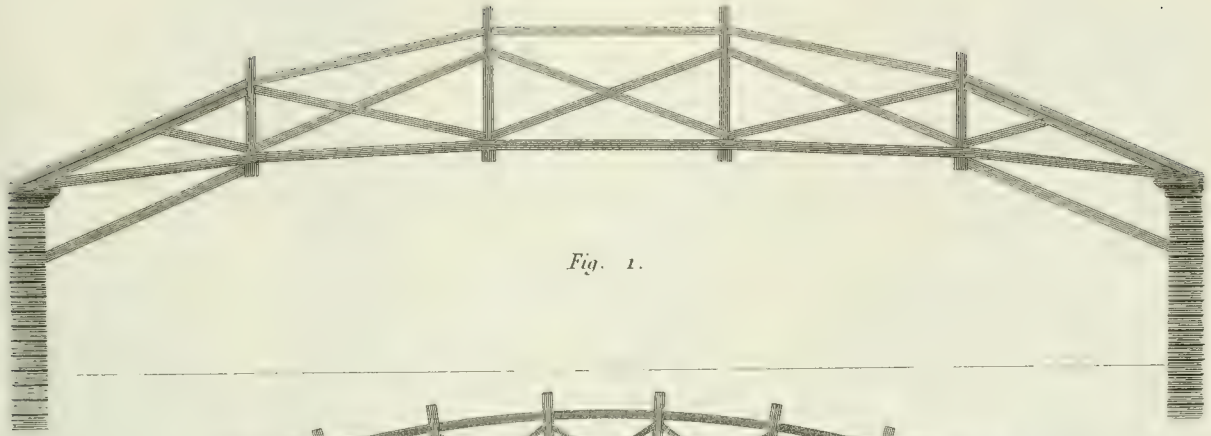

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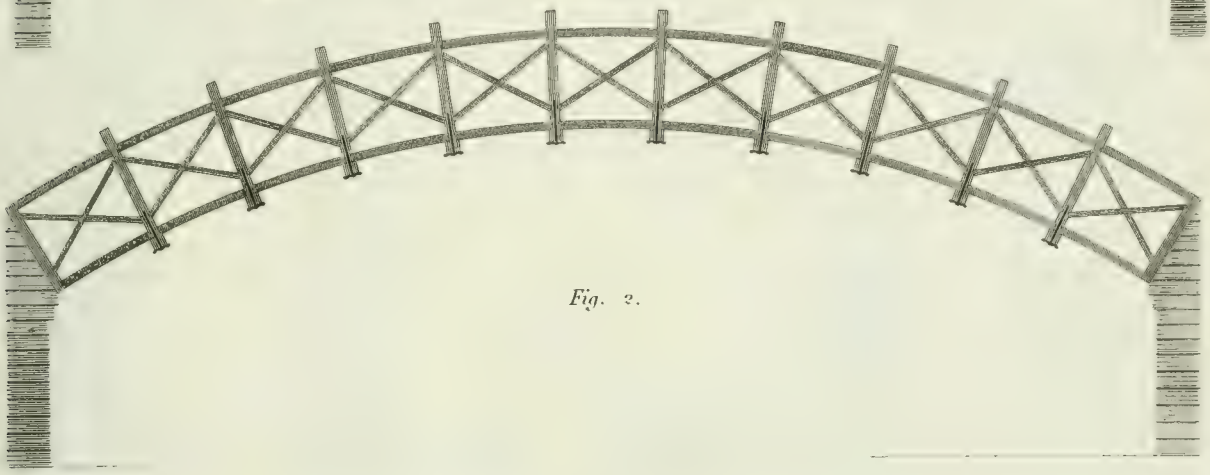

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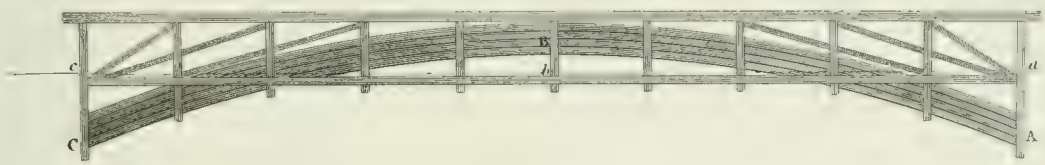

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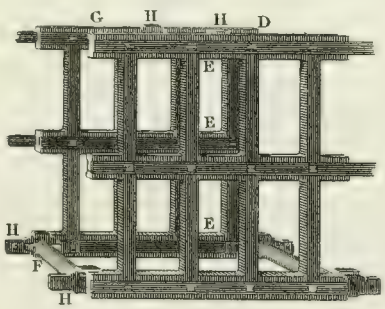

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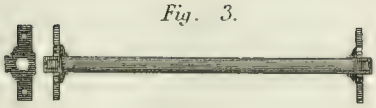

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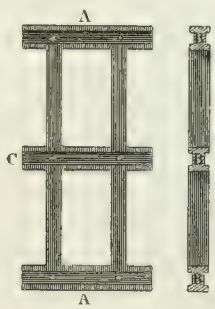

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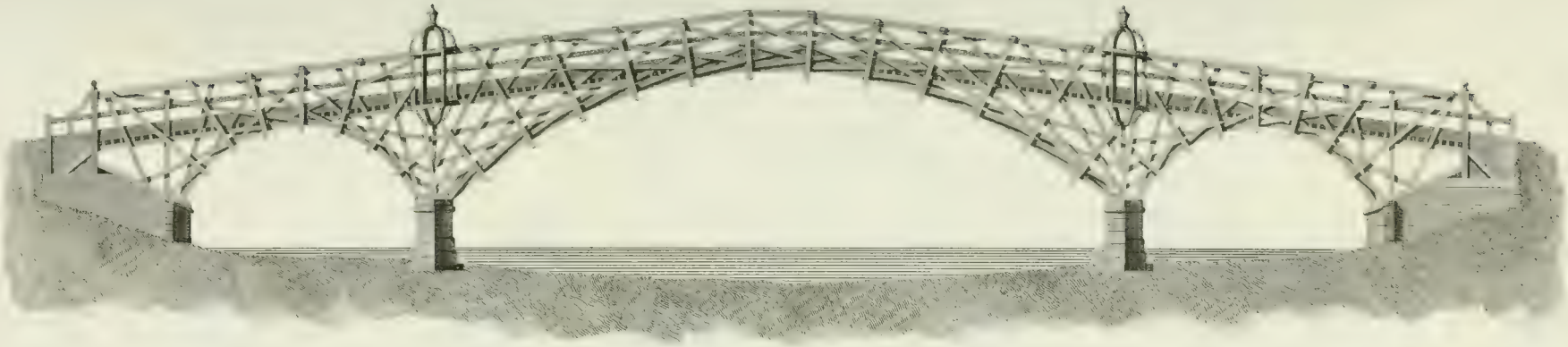
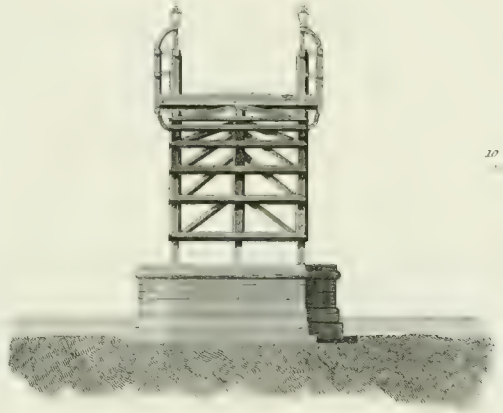
Erected over the River Thames,

at WALTON in SURRY. —

Elevation.



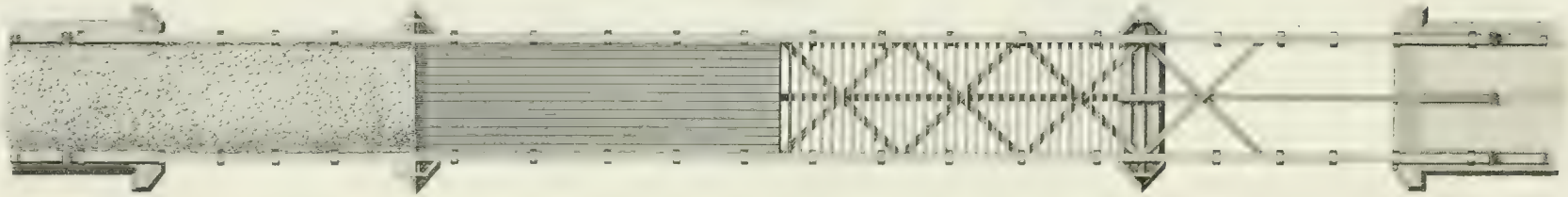
Cross Section



Scale of Feet.

10 5 0 10 20 30 40 50 60 70 80 90 100

Plan.



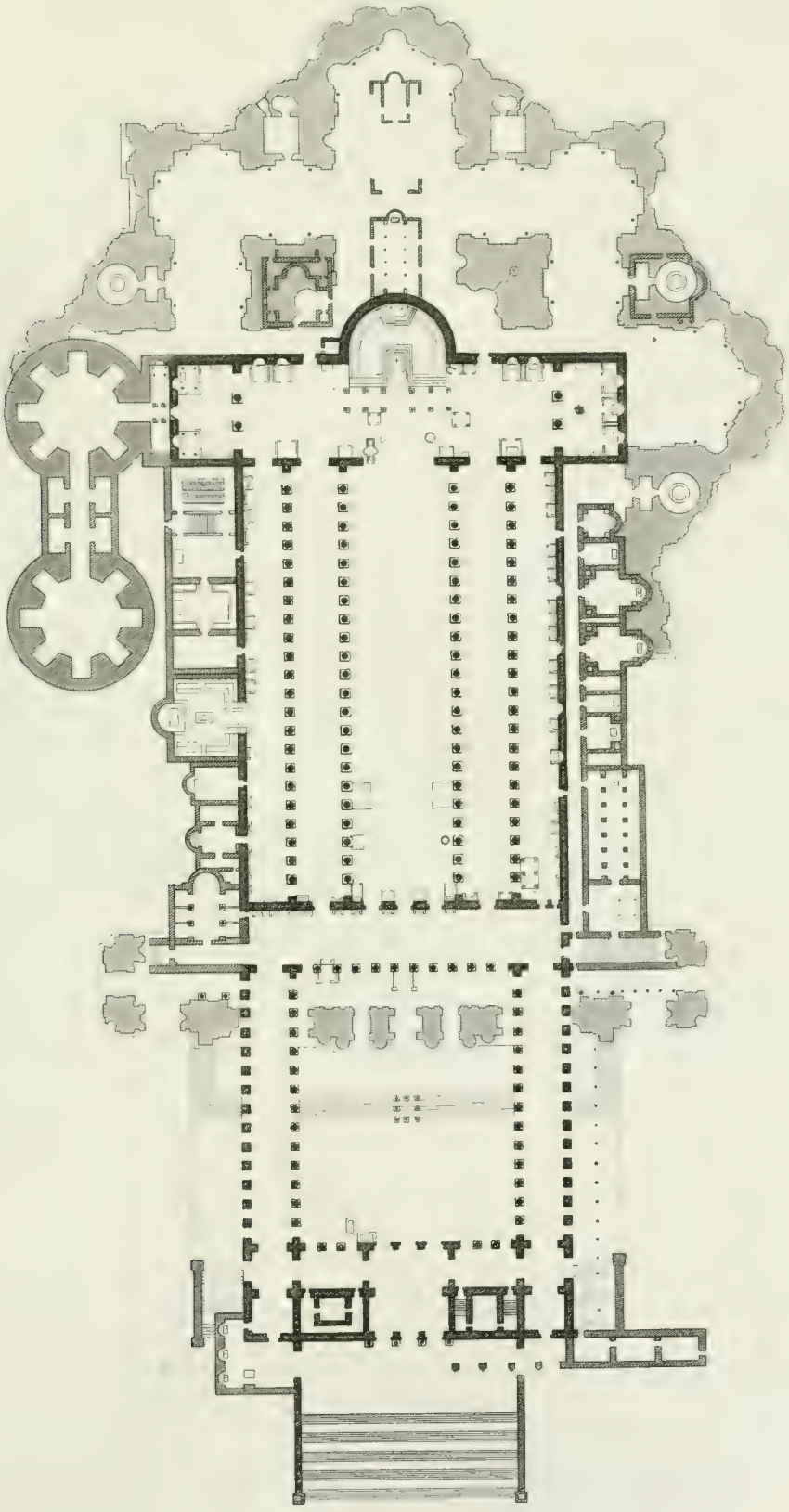
J. Lacey Delin

Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry Sc.

BASILICA.

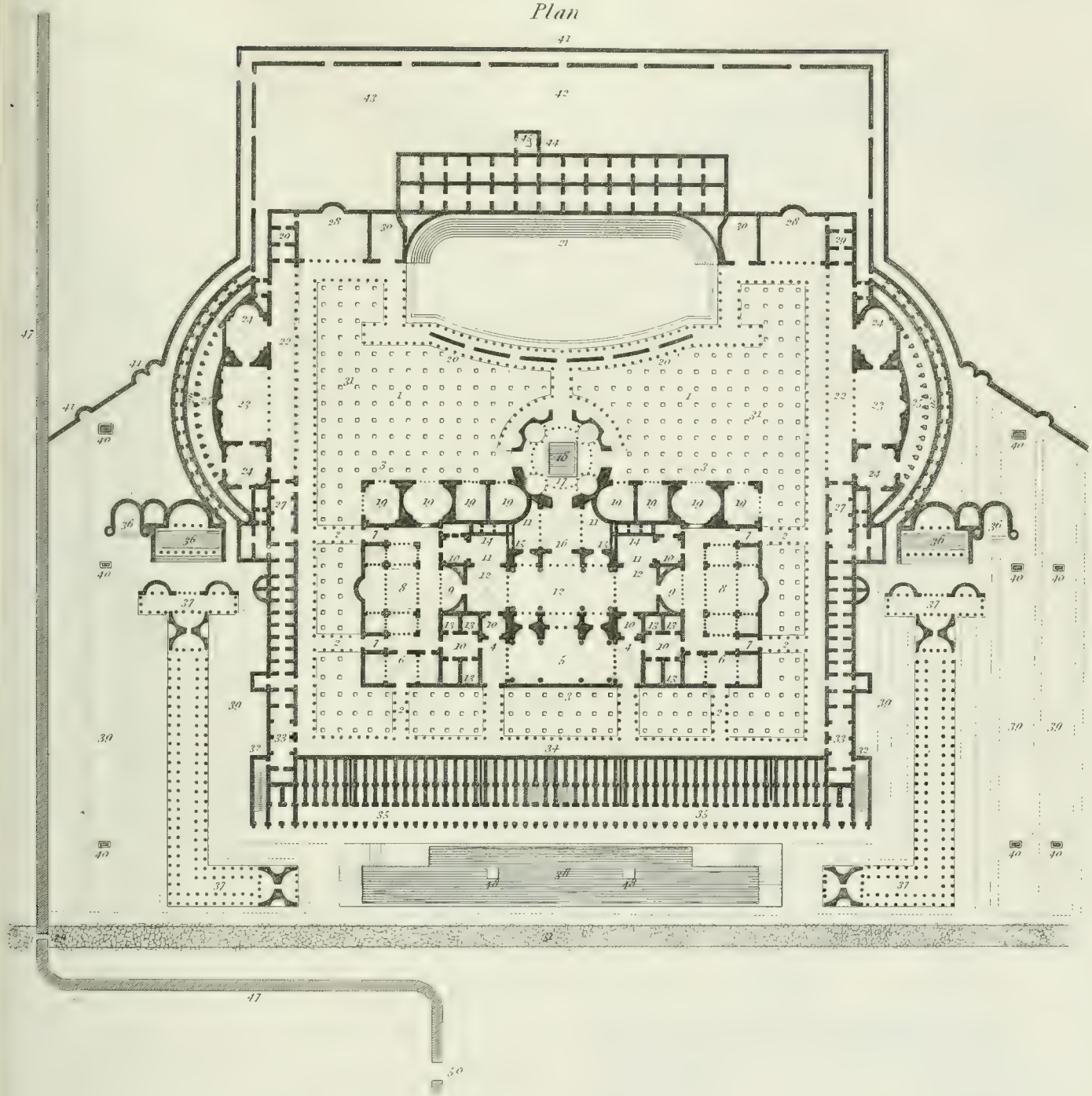
Incorporated Plans of the old Basilica of S.t Peter's and of the modern S.t Peter's of the Vatican_ from Costaguti.



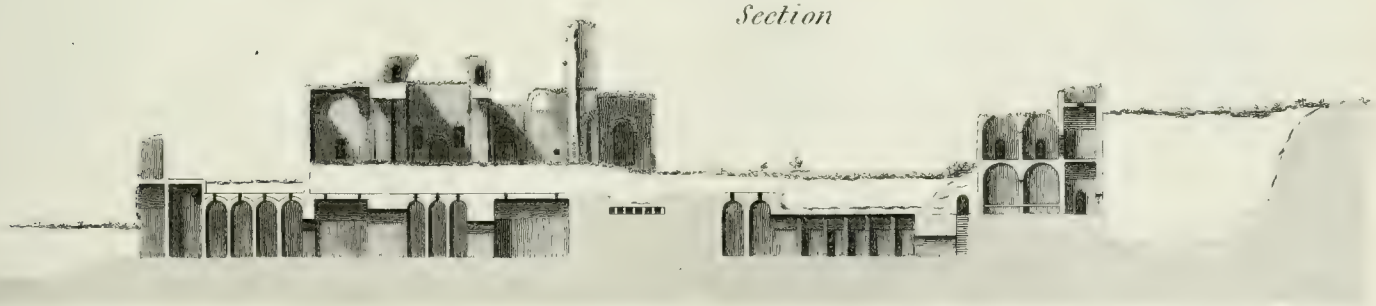
Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry

BATHS OF CARACALLA.

Plan



Section



Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

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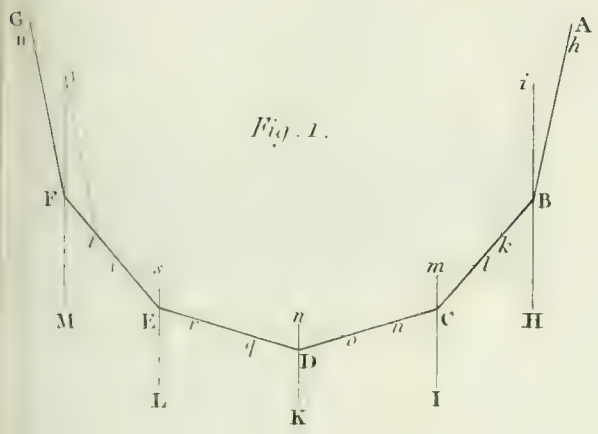
BRIDGE.



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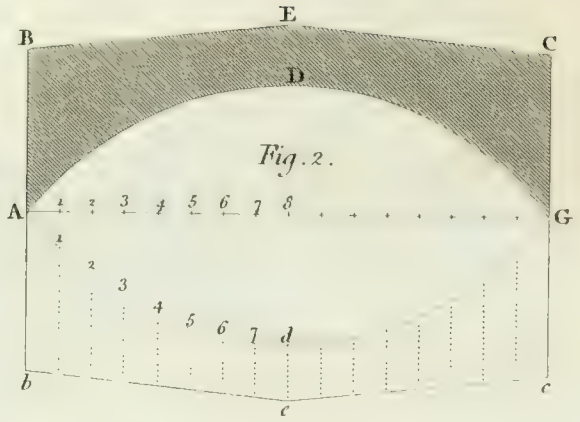
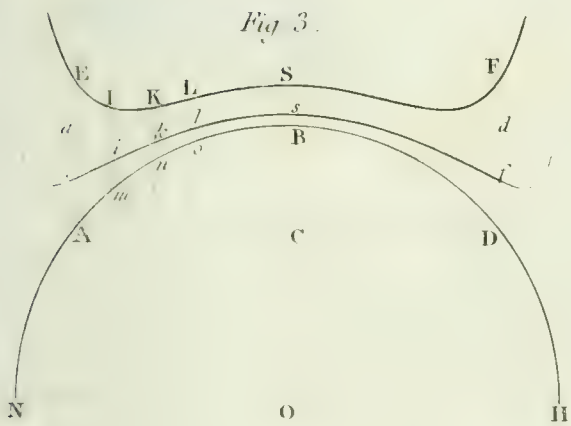


Fig. 2.

Fig. 4.



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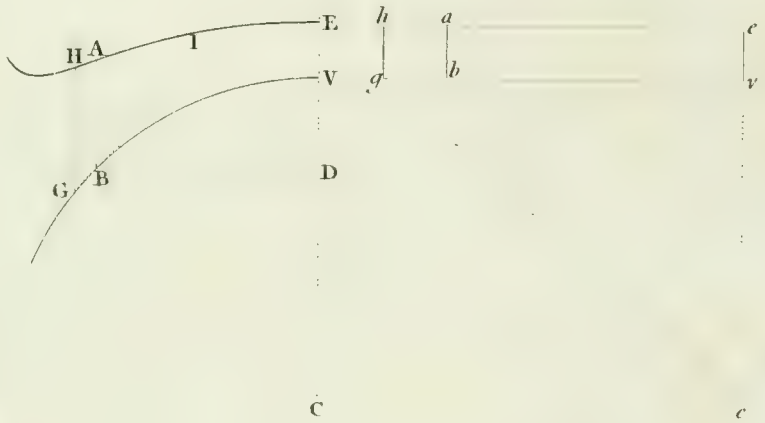


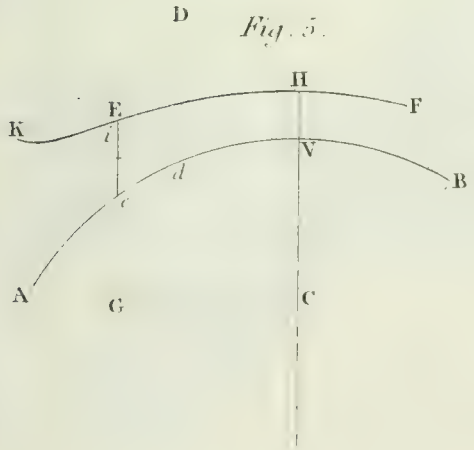
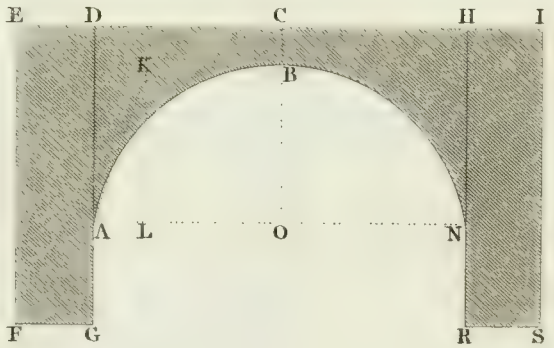


Fig. 5.

Fig. 6.



Published as the Act directs Aug.t 1.t 1805, by Longman Hurst Rees & Orme Paternoster Row.

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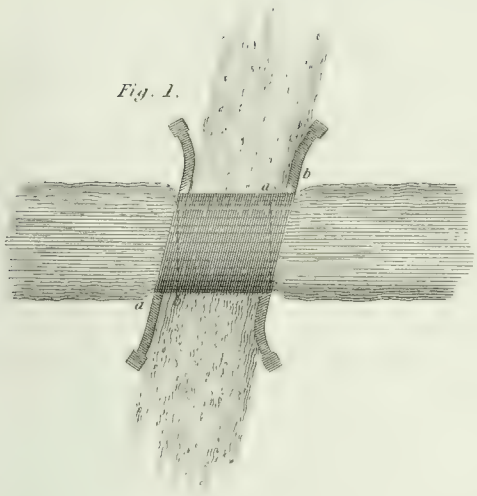
OBLIQUE ARCH.

Fig. 1.



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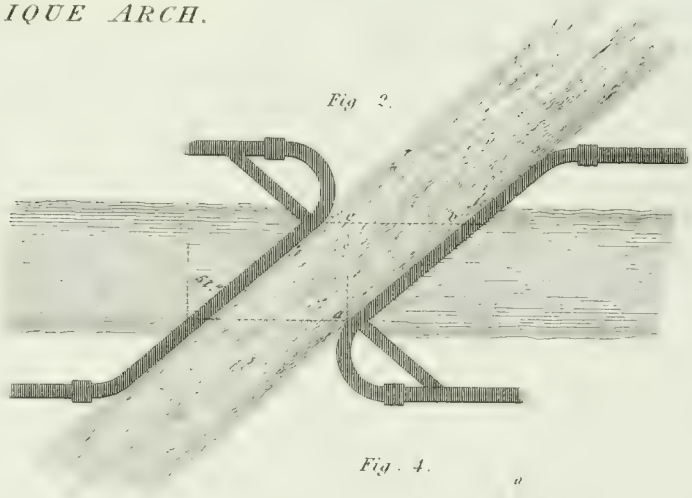

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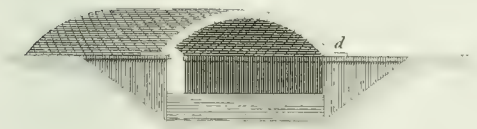

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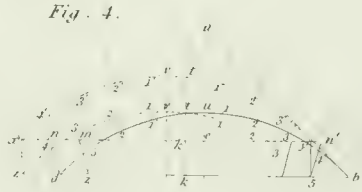
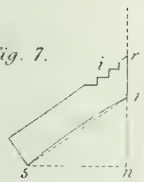


Fig. 5.

Fig. 6

Fig. 7.



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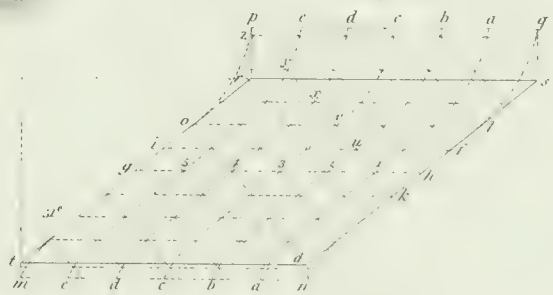

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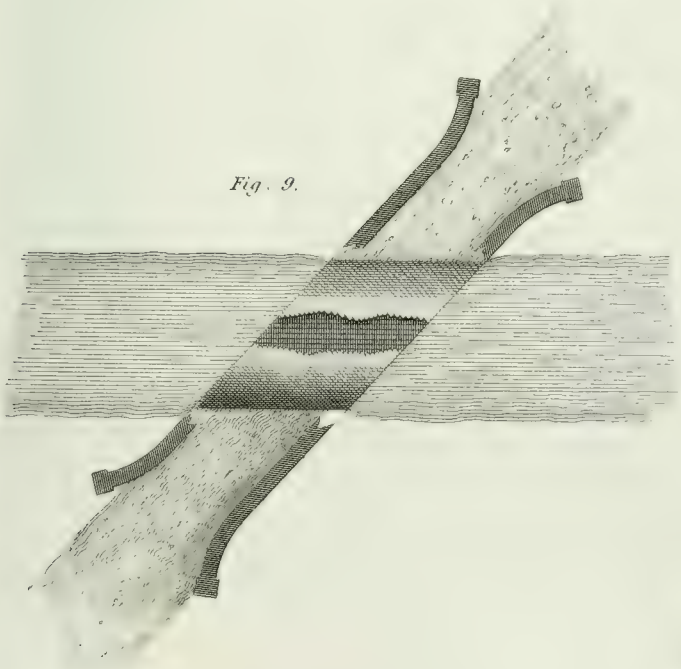

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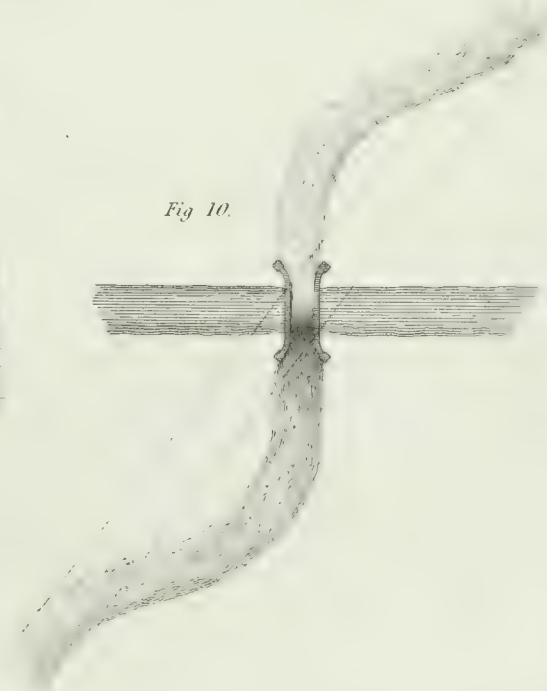
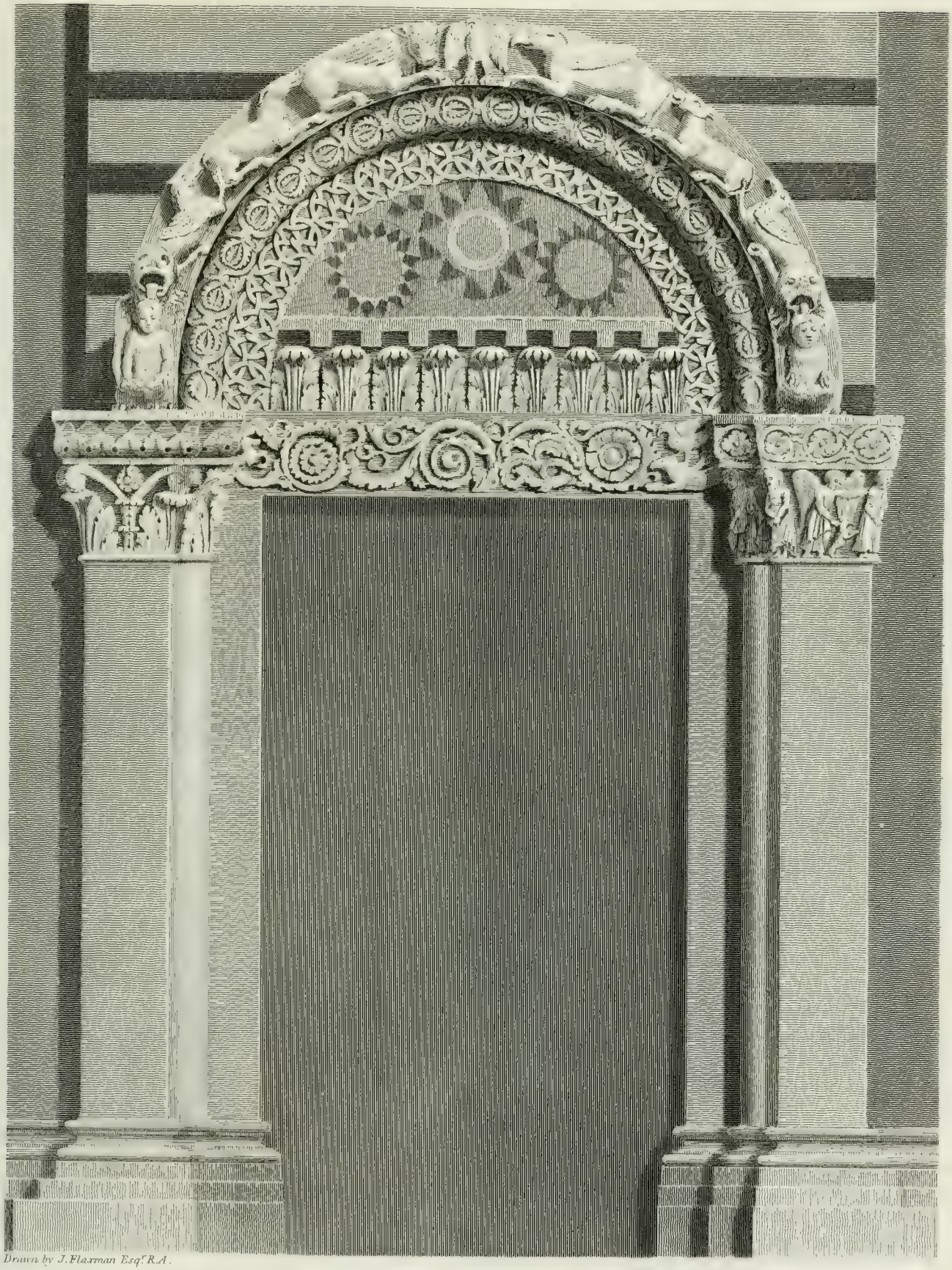


J. Farey Junr. delin. Published as the Act directs, 1815, by Longman, Hurst, Rees, Orme and Brown, Paternoster Row. Lowry Sculp.



Drawn by J. Flaxman Esq.r R.A.

WEST DOOR OF THE CATHEDRAL OF CARRARA,

Late in the Duchy of Maſsa Carrara in Italy, built about the year 1151 or soon after according to the Church Mſs.

Published as the Act directs, Aug.st 1803, by Longman & Rees, Paternoster Row.

Engraved by Wilson

ARCHITECTURE.

CHIMNEY and *DOME*.

PLATE XLI & VIII.

Fig. 2.

Fig. 3.

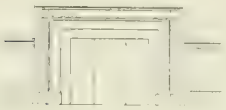
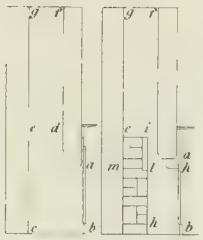


Fig. 5. *Fig. 6.*



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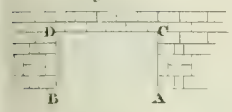

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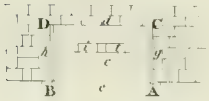
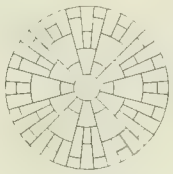


Fig. 1. N° 1.

Fig. 2. N° 2.



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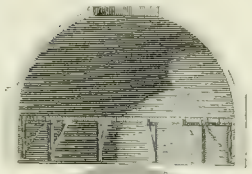
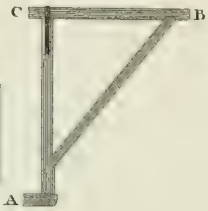


Fig. 3. N° 3.

Fig. 3. N° 4.



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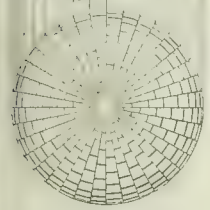
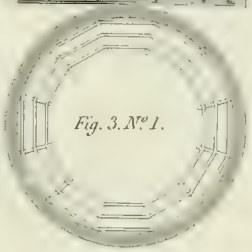


Fig. 2. N° 1.

Fig. 3. N° 1.



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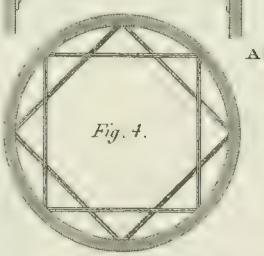
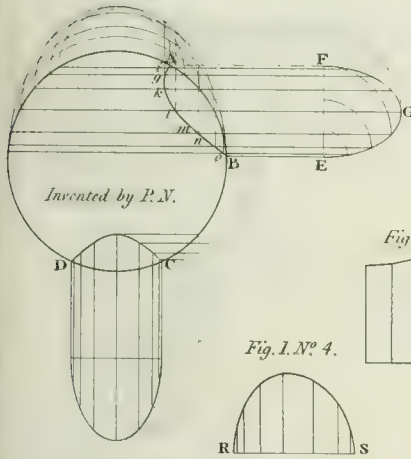


PLATE VIII. A.

Fig. 1. N° 1.



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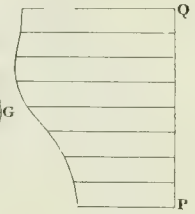


Fig. 1. N° 3.

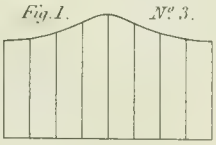


Fig. 1. N° 4.

Fig. 2.

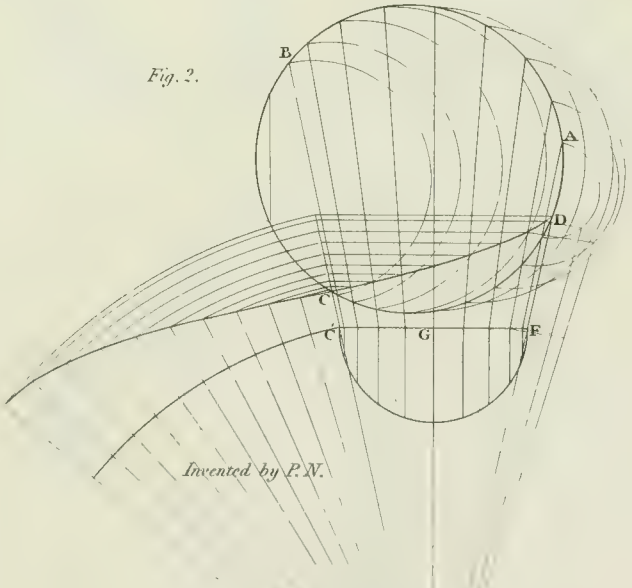


Fig. 3. N° 2.

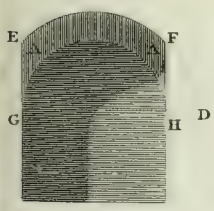
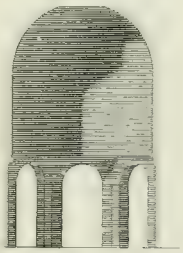


Fig. 4. N° 2.

Fig. 5. N° 2.



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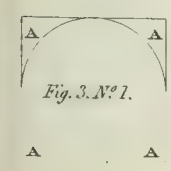
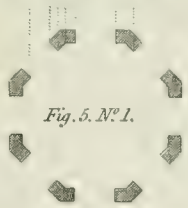


Fig. 4. N° 1.

Fig. 5. N° 1.



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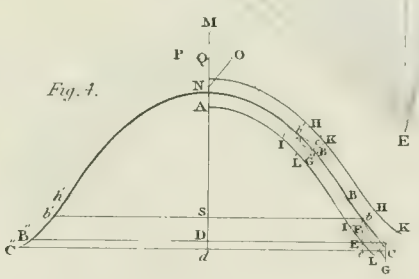

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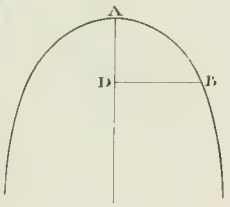
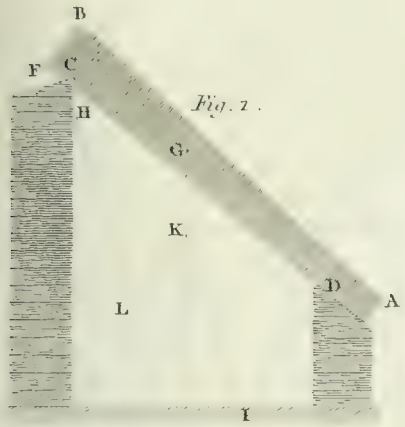


Drawn by P. Nicholson.

Published as the Act directs, 1814, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row, London.

Engraved by W. Lowry.

CARPENTRY.



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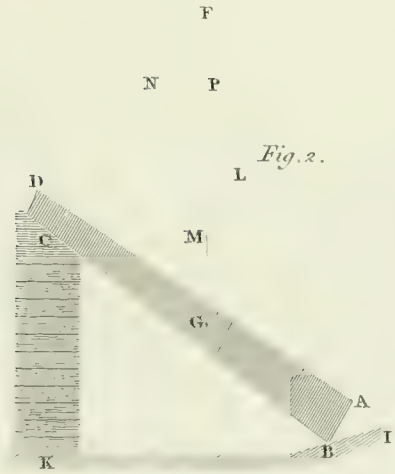

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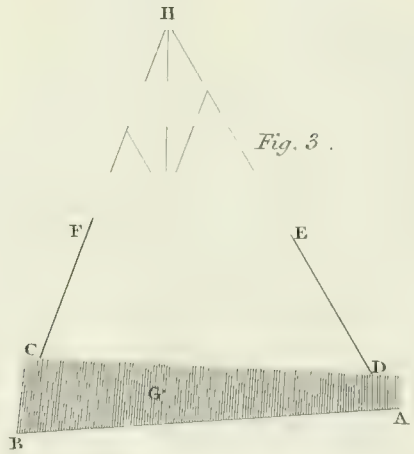

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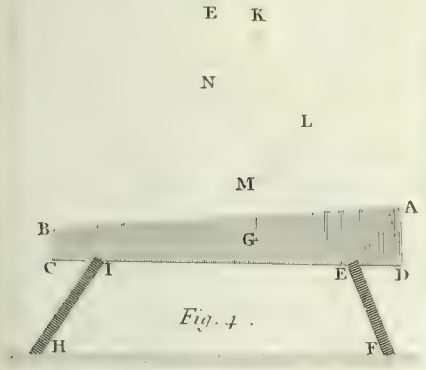

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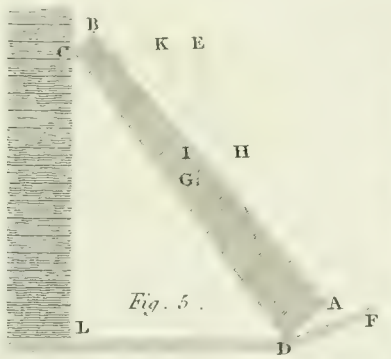

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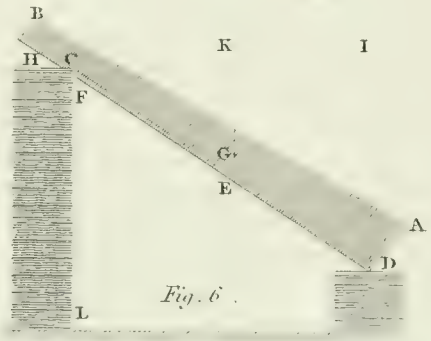

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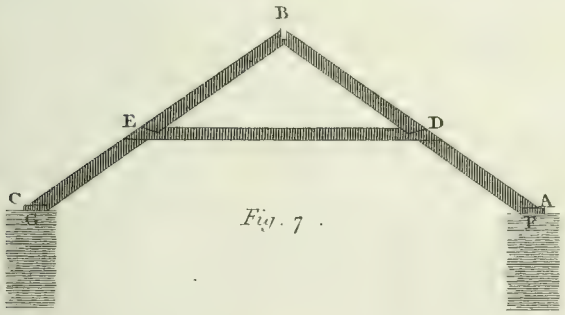

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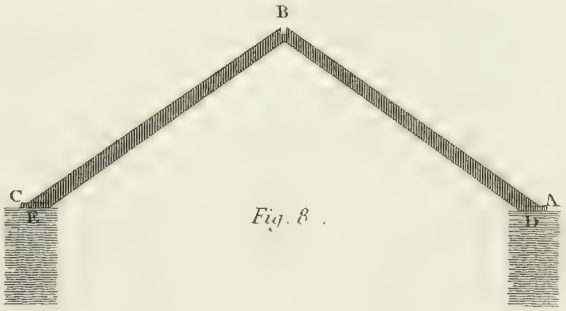
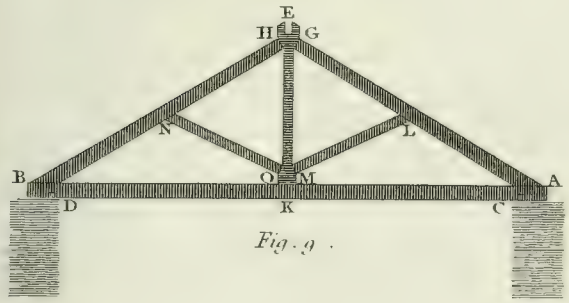


Fig. 8.



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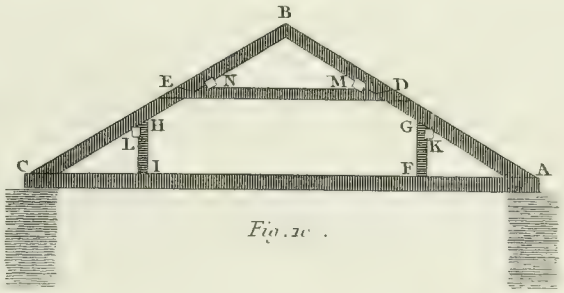
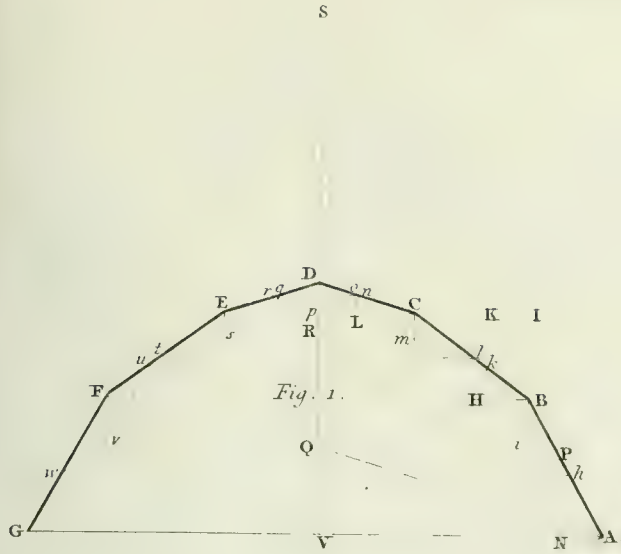


Fig. 10.

v P. Nicholson. Published as the Act directs April 1st 1805, by Longman, Hurst, Rees, & Orme, Paternoster Row. Engraved by Wilson Lowry.

CARPENTRY.



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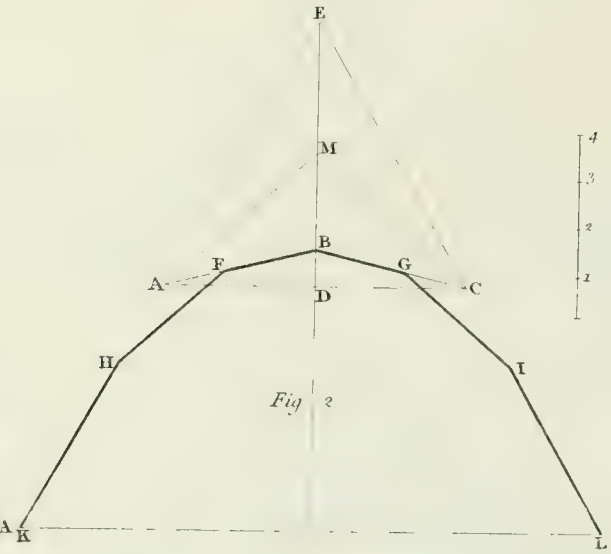

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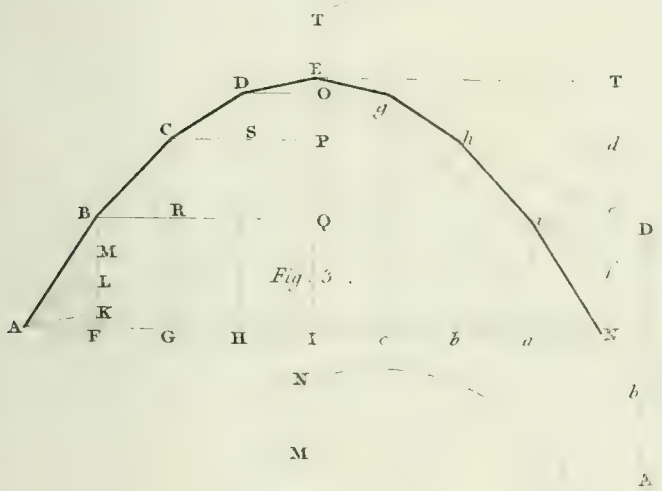

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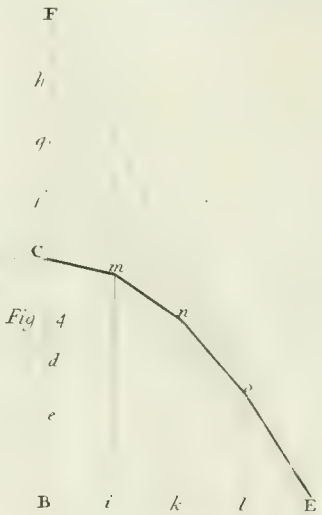

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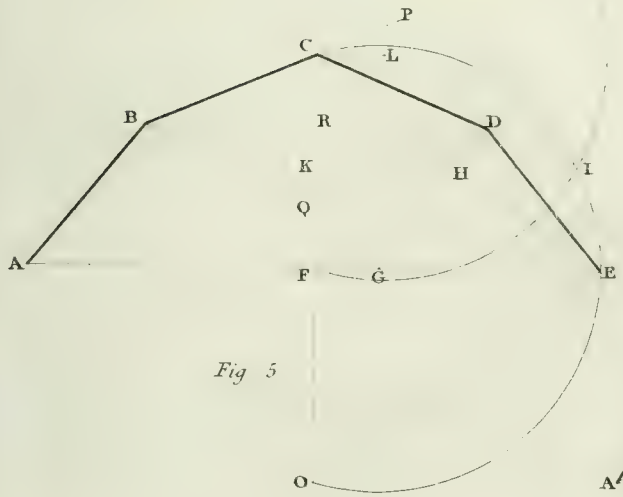

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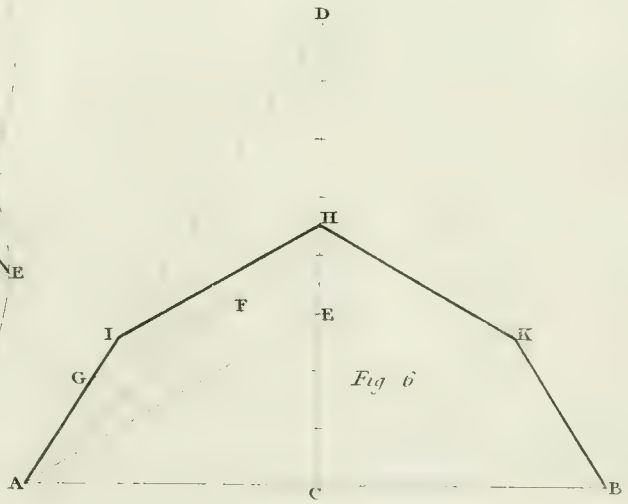

Fig 6

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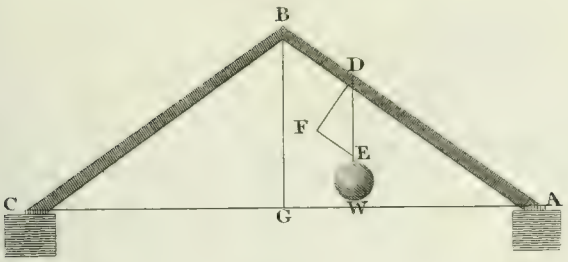
ARCHITECTURE.

ROOFS.

Fig. 2.



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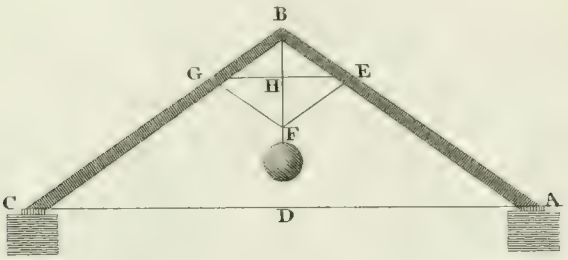

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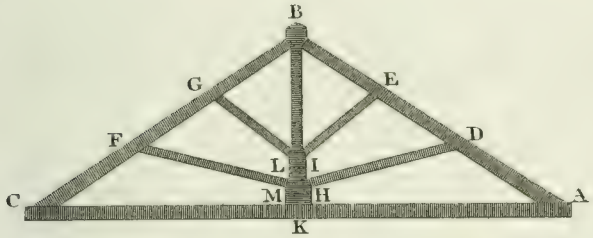

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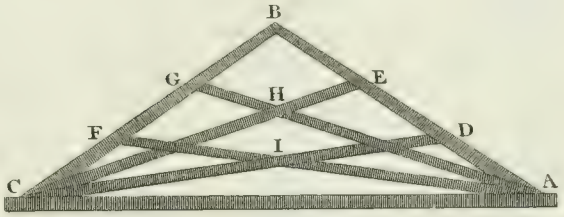

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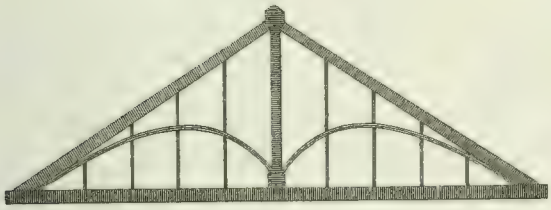

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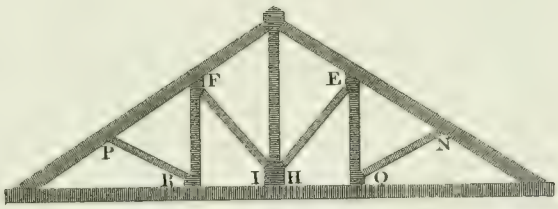

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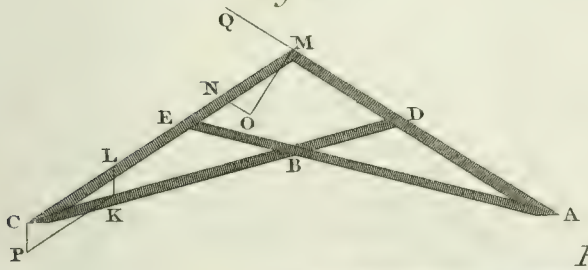

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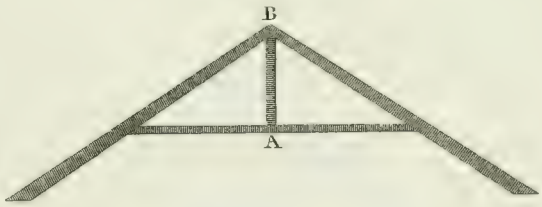

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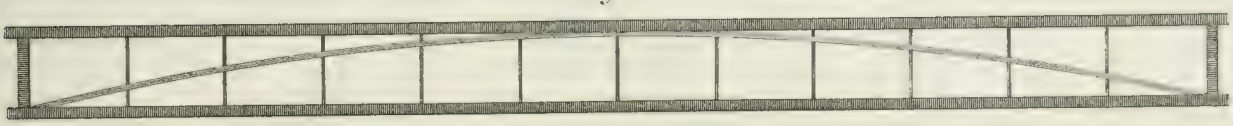

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ARCHITECTURE.

CARPENTRY.

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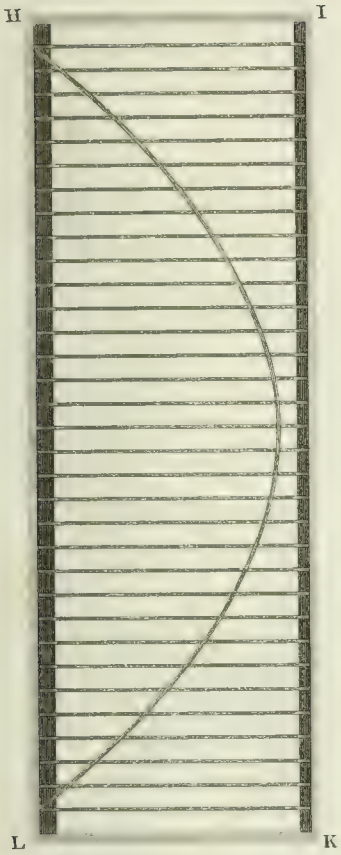

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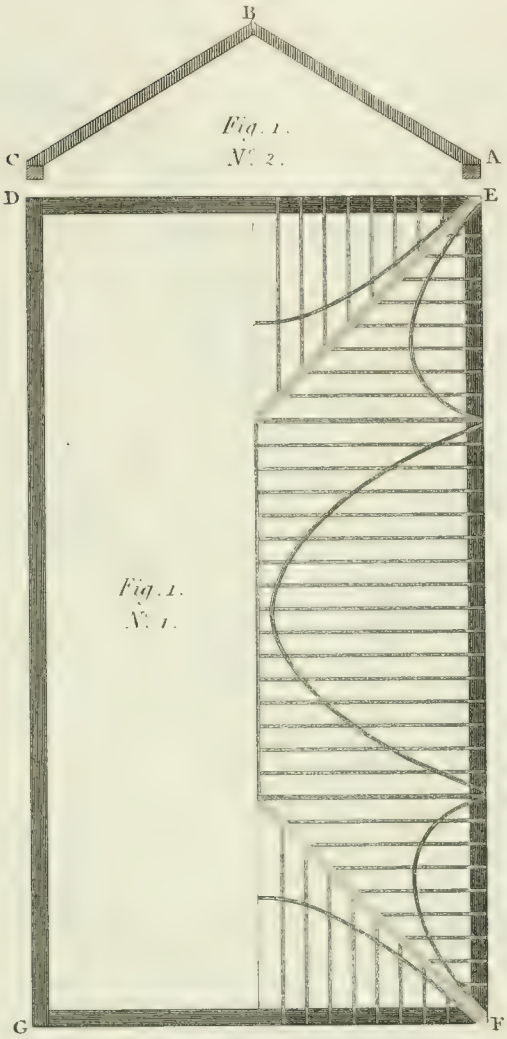

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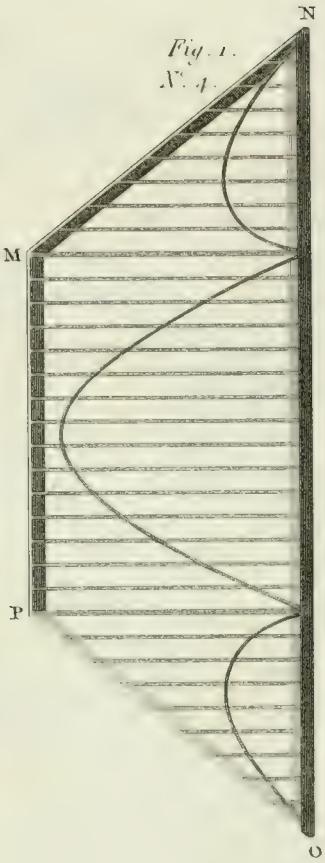

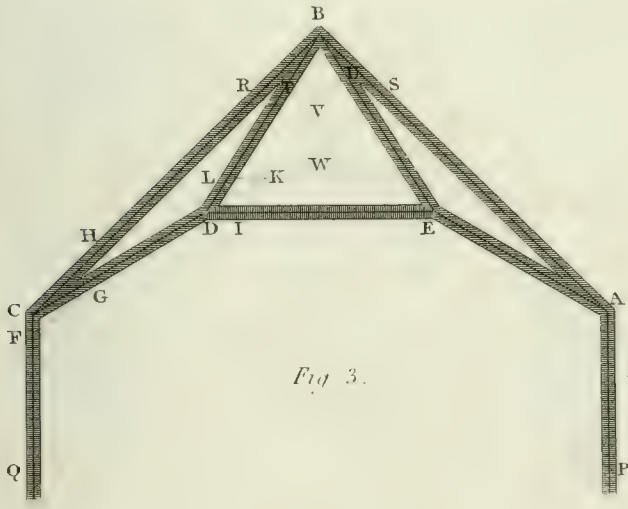

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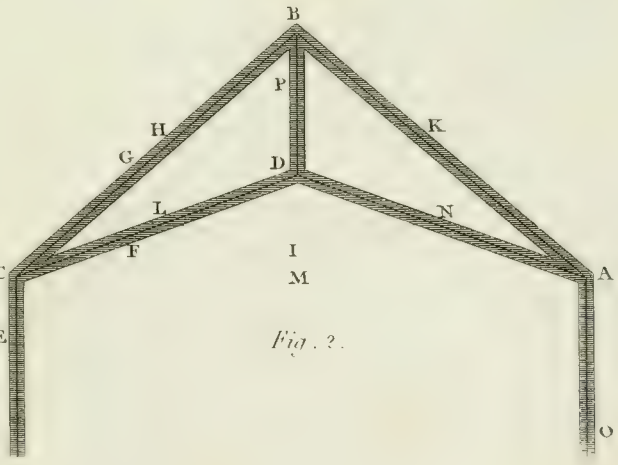

Fig. 2.

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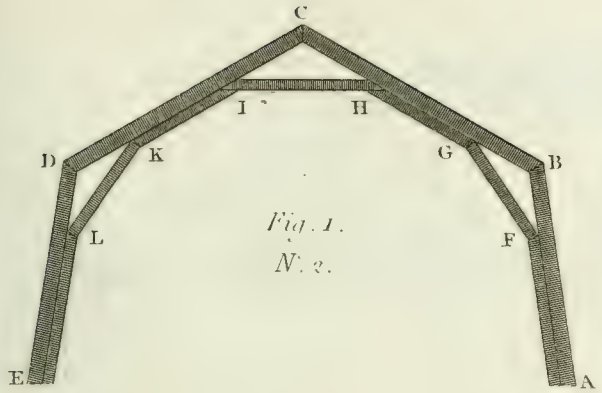

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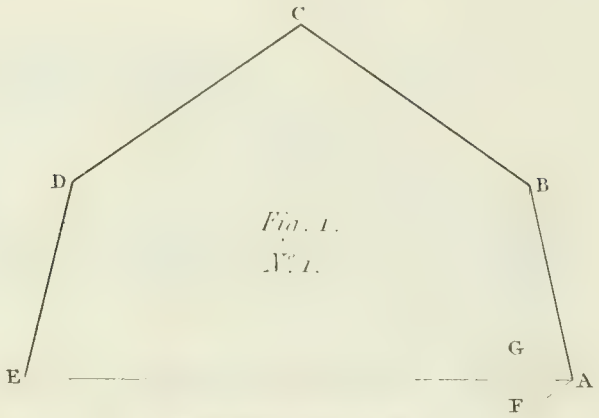

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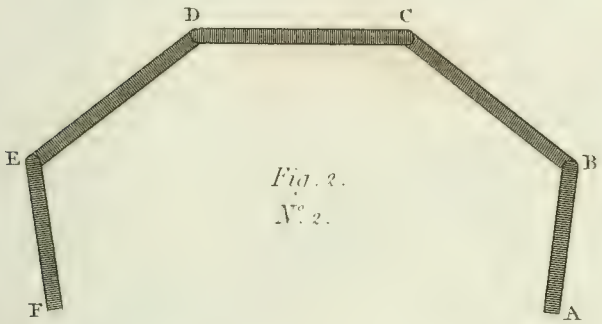

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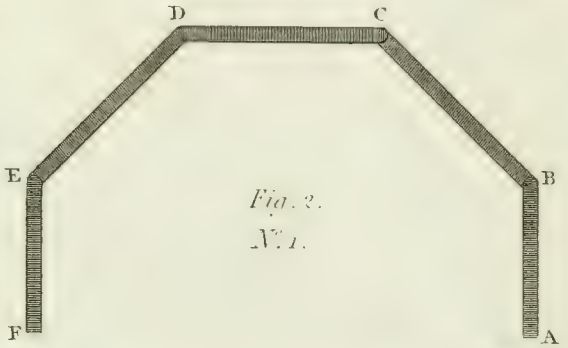

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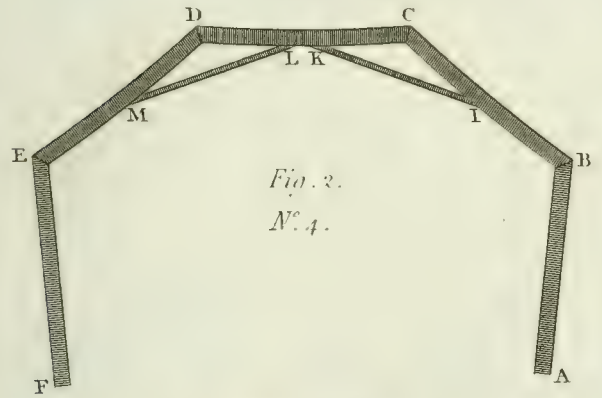

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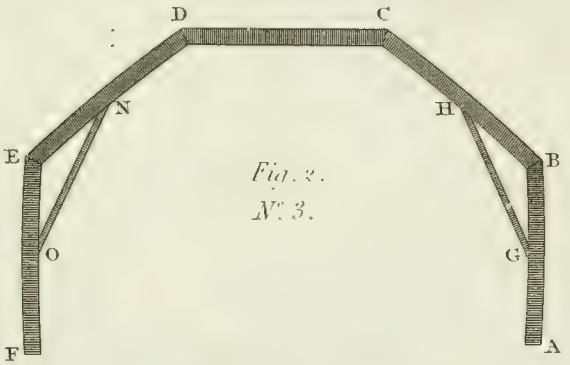

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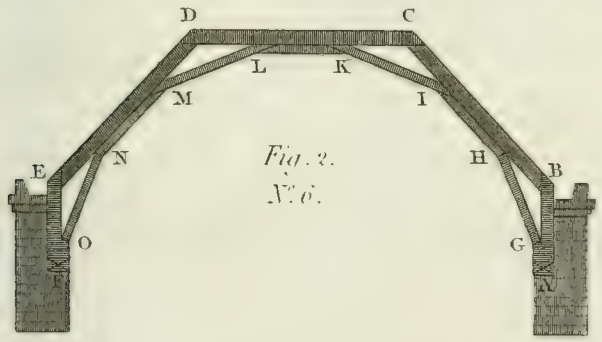

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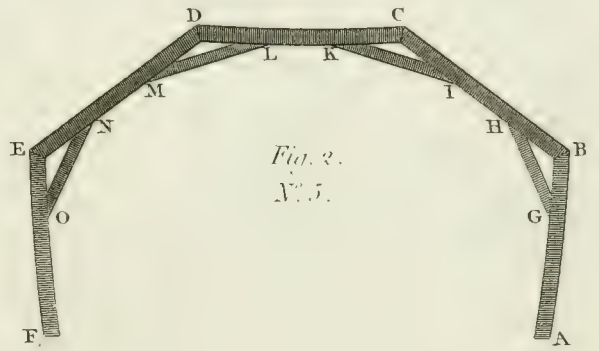

Fig. 2.
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CARPENTRY.

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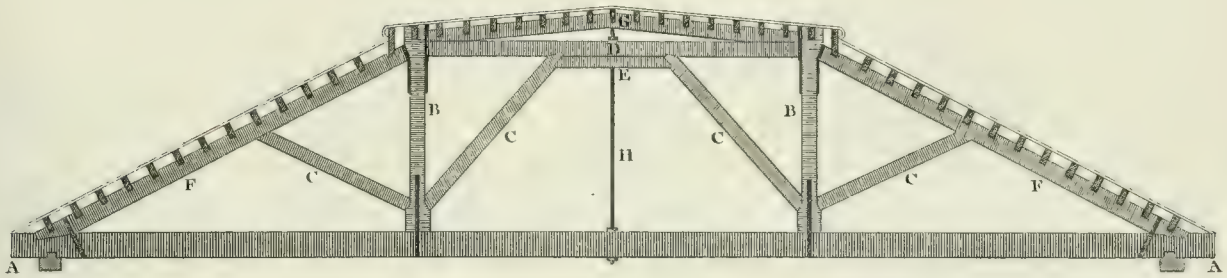

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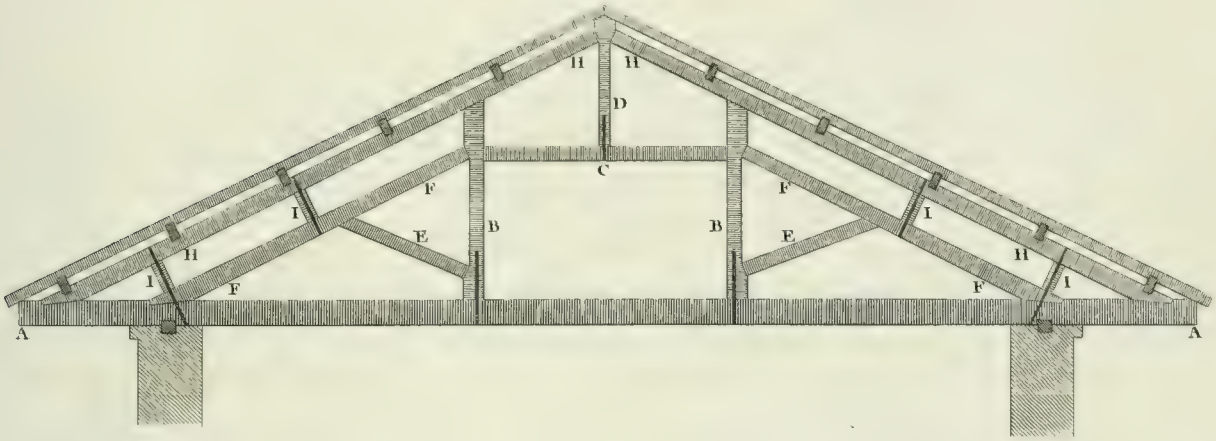

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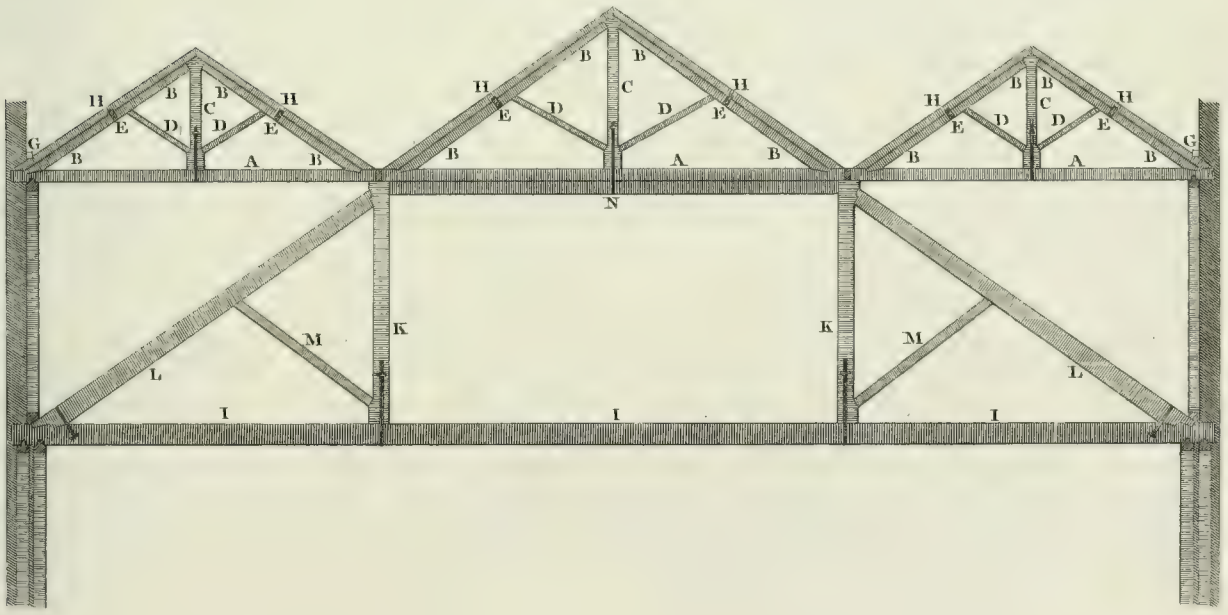

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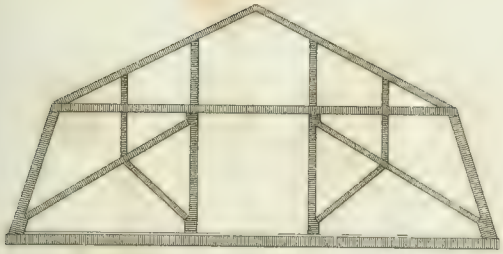

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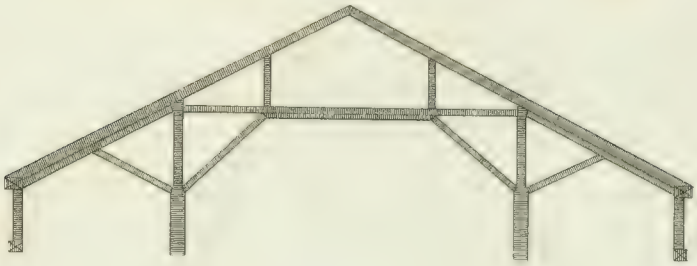

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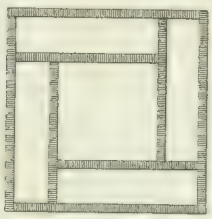

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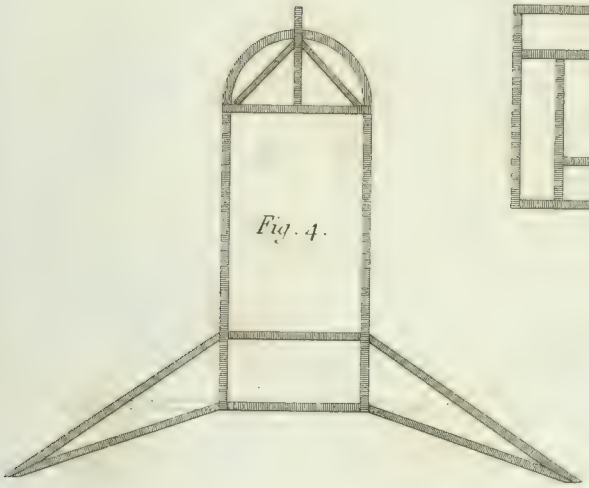

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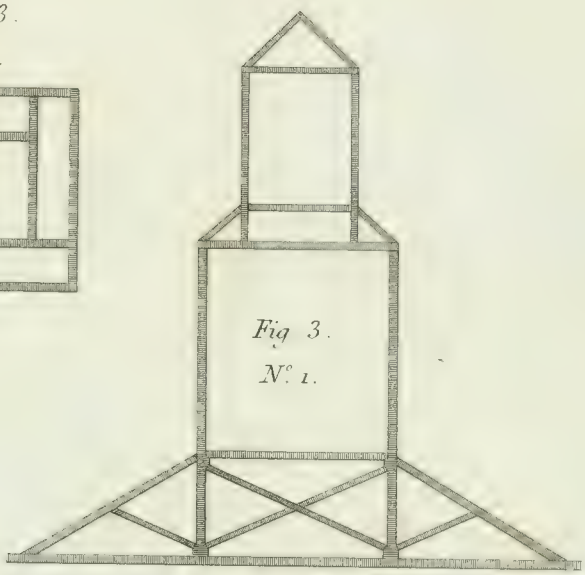

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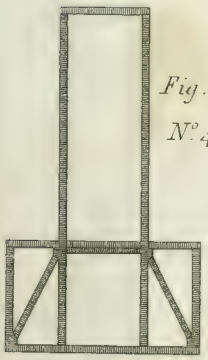

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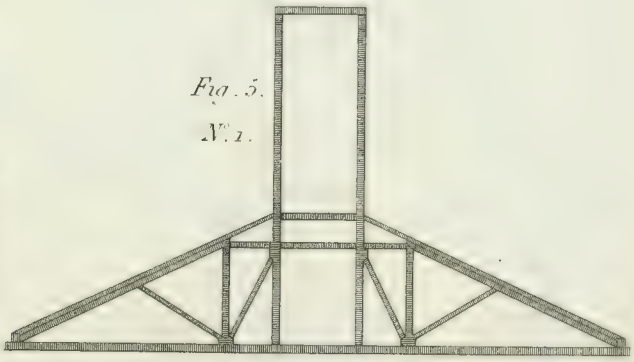

P. Nicholson

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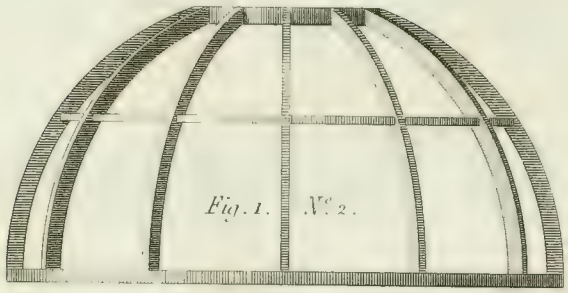

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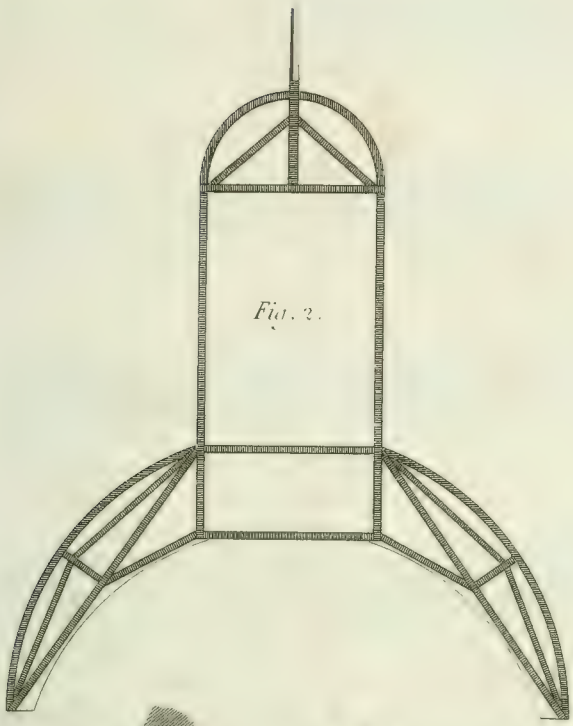

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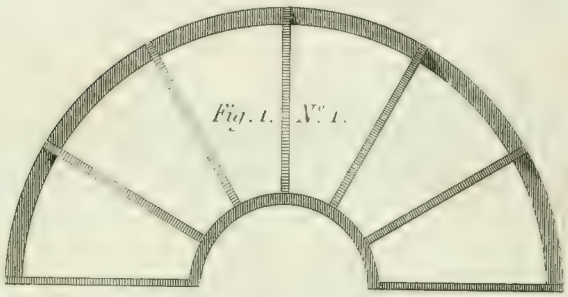

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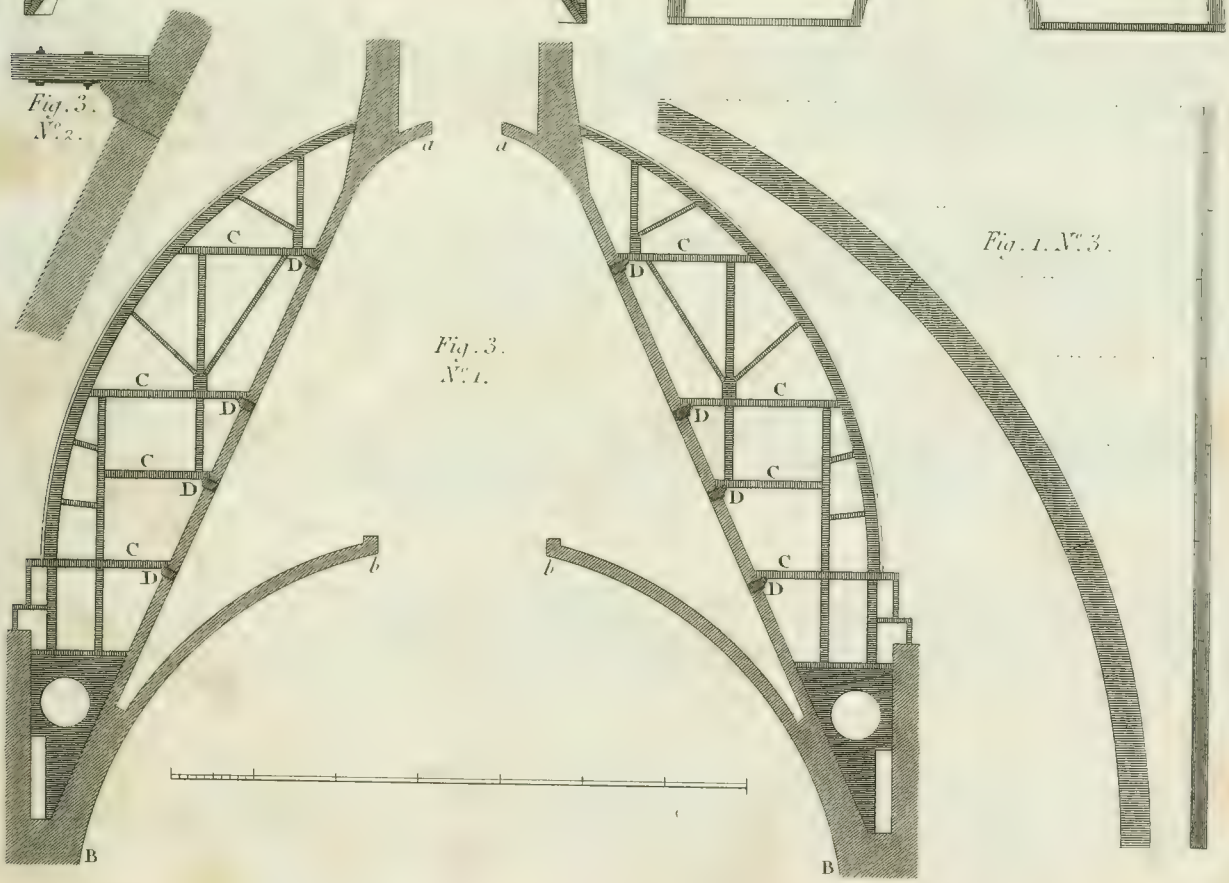

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ARCHITECTURE.

CARPENTRY.

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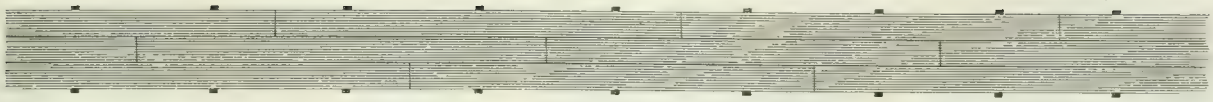


Fig.3.

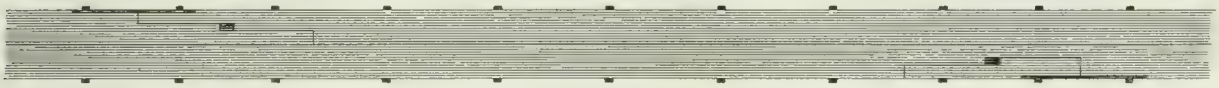
Fig.2.

Fig.5.

Fig.4

Fig.6.

Fig.7.



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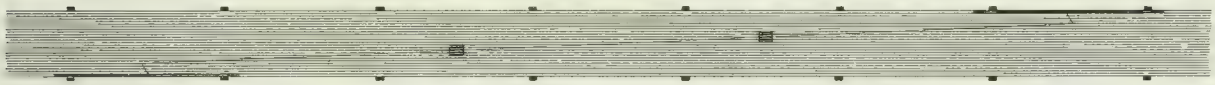

Fig.9.
Nos 3 & 4.

Fig.9 N°1.

Fig.9.N°2

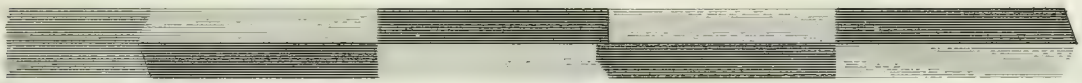

Fig 9
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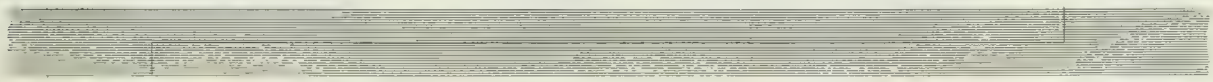
Fig.9.N°6.



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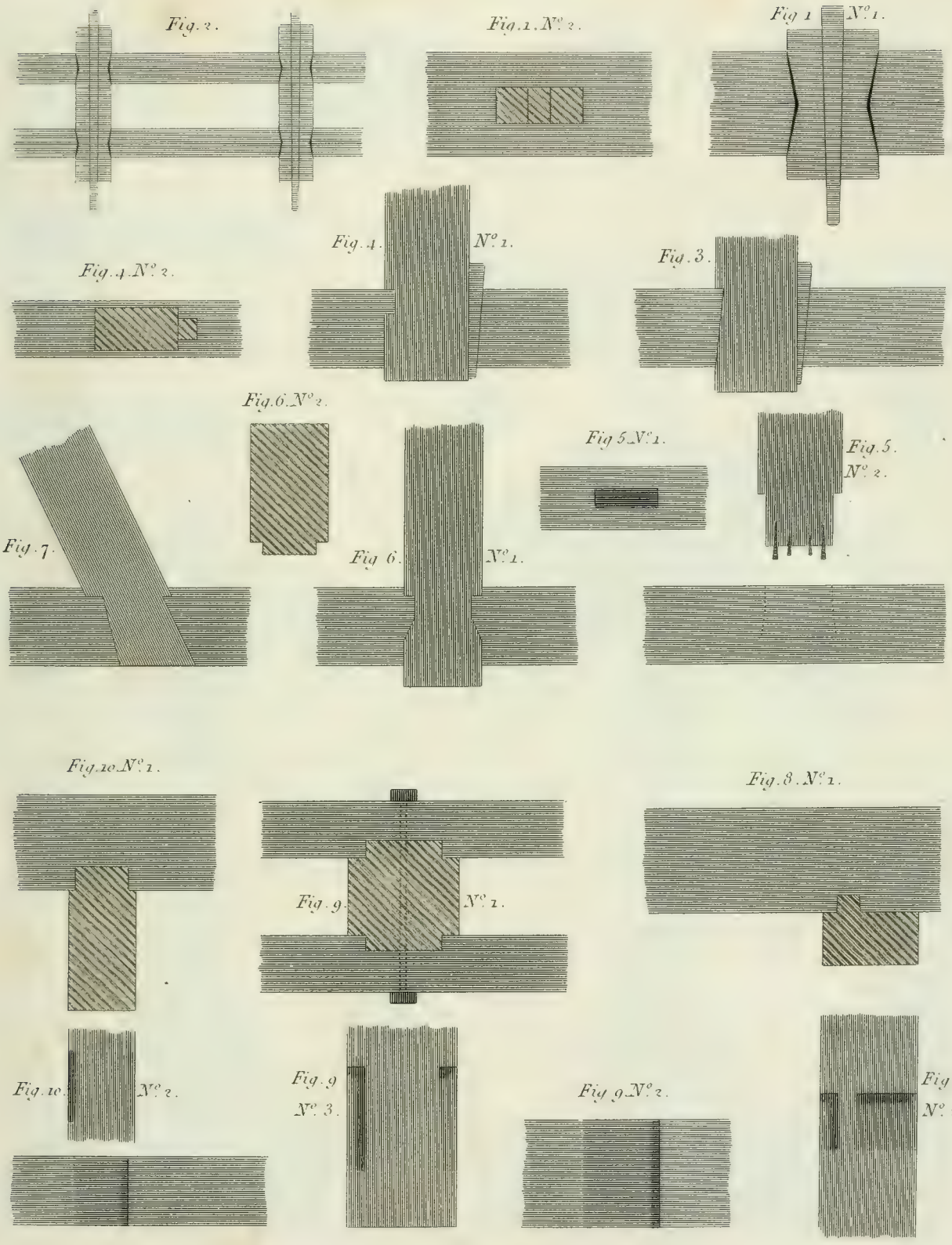

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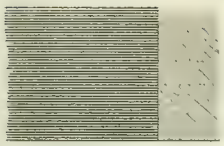

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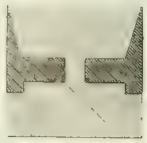
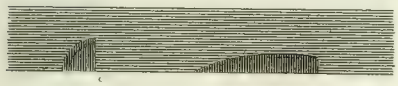
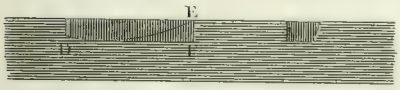


Fig. 2. N. 3

Fig. 3





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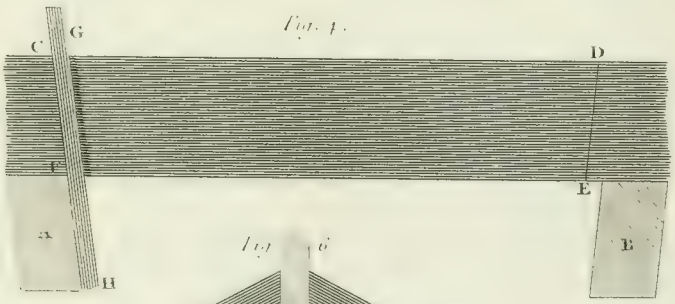

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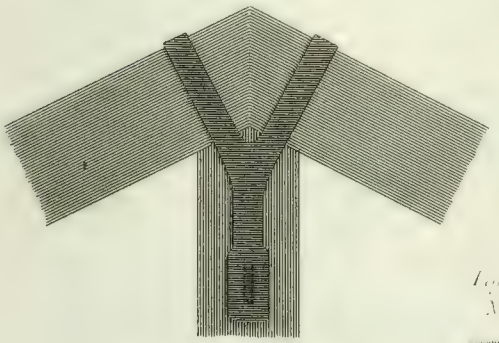

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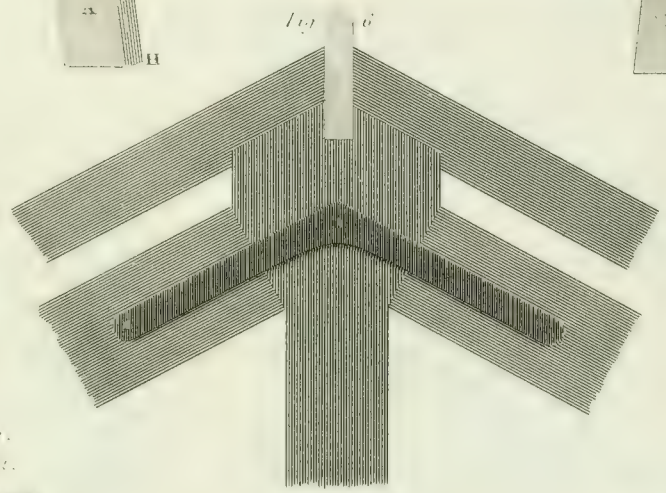
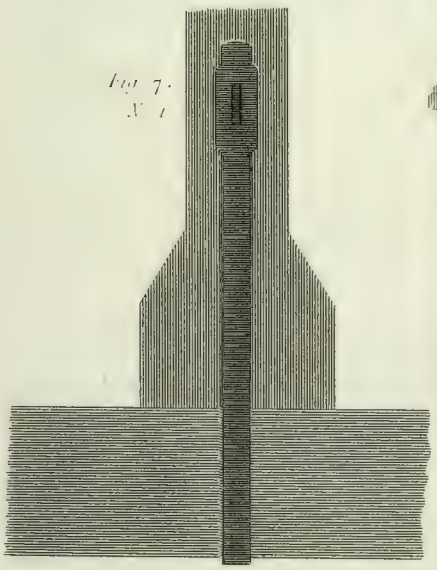


Fig. 7.
N. 2.

Fig. 7.
N. 1



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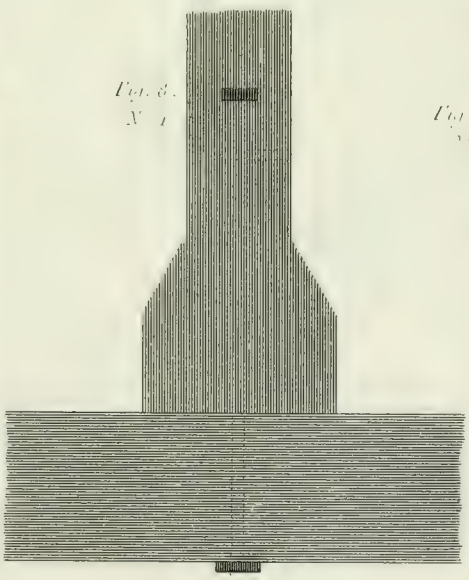
N. 1



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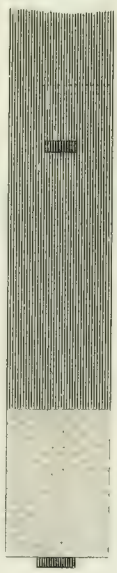

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ARCHITECTURE.

CARPENTRY.

Fig. 4 N° 1

Fig. 4. N° 3

Fig. 4. N° 2.

Fig. 1.

Fig. 2.

Fig. 4. N° 4.

Fig. 5.

Fig. 3.

Fig. 6.

Fig. 8.

Fig. 7.

Fig. 9. N° 2.

Fig. 10. N° 2.

Fig. 11.

Fig. 10. N° 1.

Fig. 9. N° 1.

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ARCHITECTURE.

CARPENTRY.

Fig. 1

Fig. 2 N° 1.

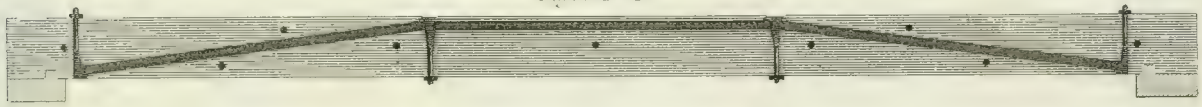
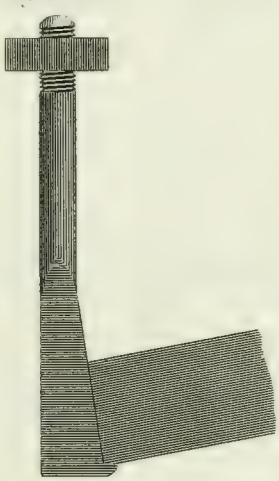


Fig. 2 N° 2

Fig. 2 N° 7.

Fig. 2 N° 6.

Fig. 2 N° 5



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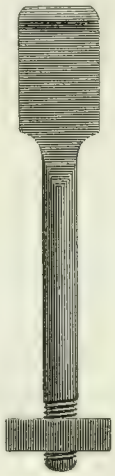

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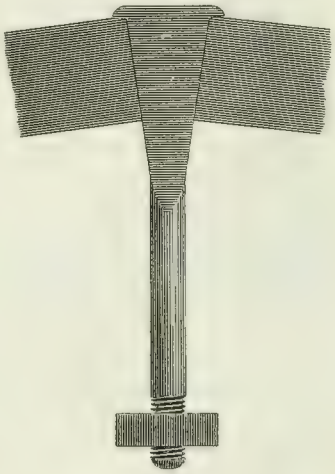

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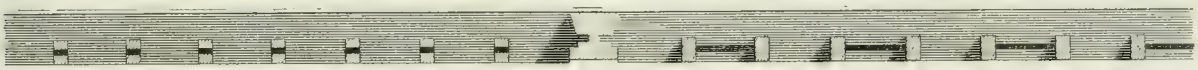

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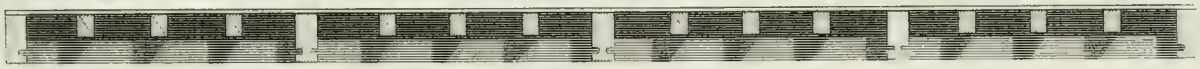

Fig. 4 N° 1.

Fig. 4 N° 2.

ARCHITECTURE.

BRIDGES.

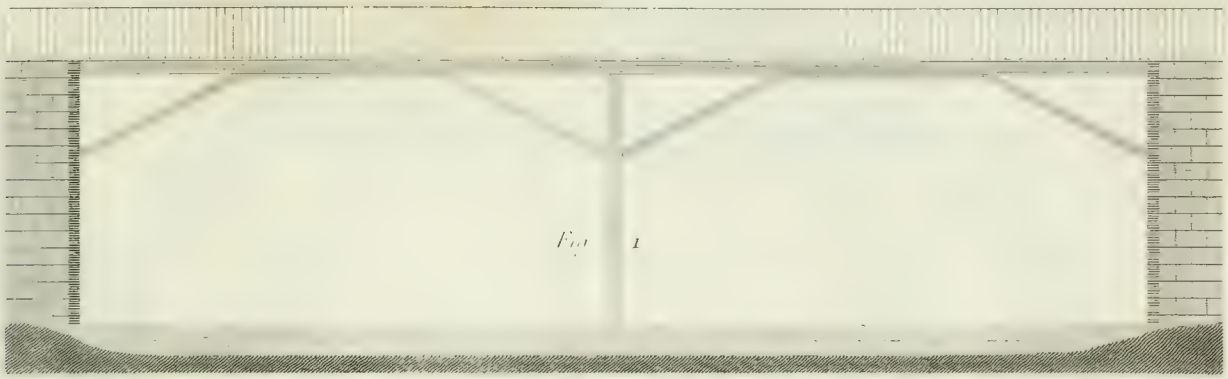

Fig. 1

Fig. 2

Fig. 3.

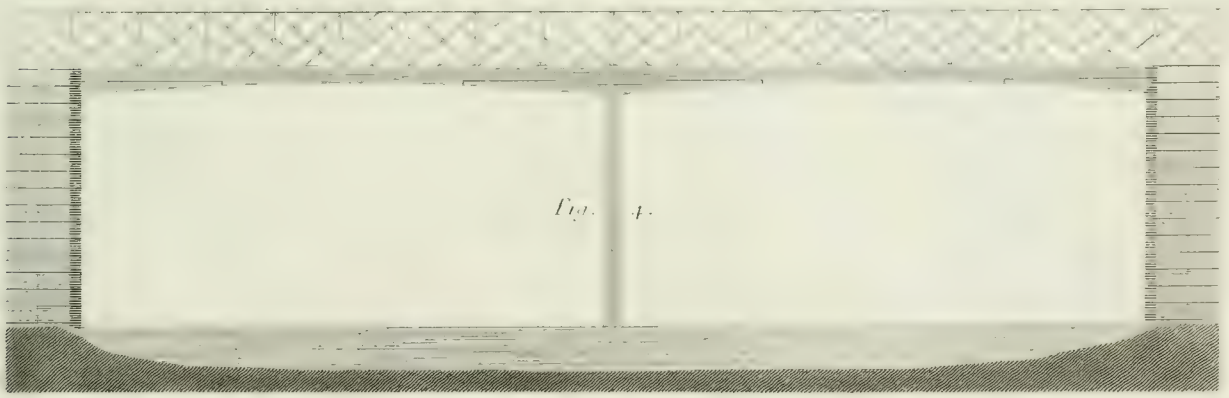

Fig. 4.

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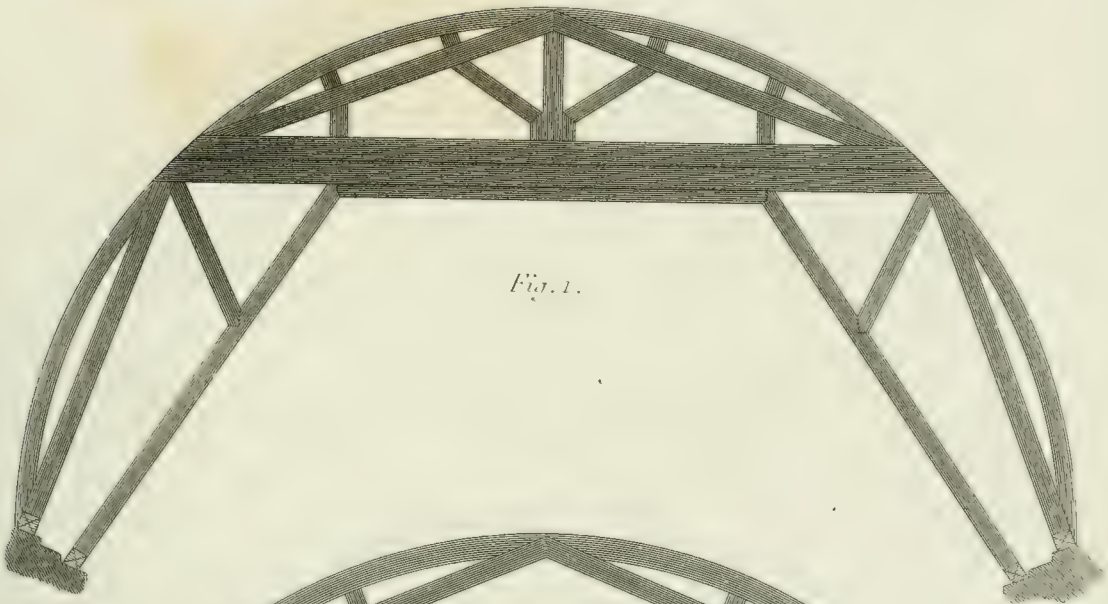
CENTRES.



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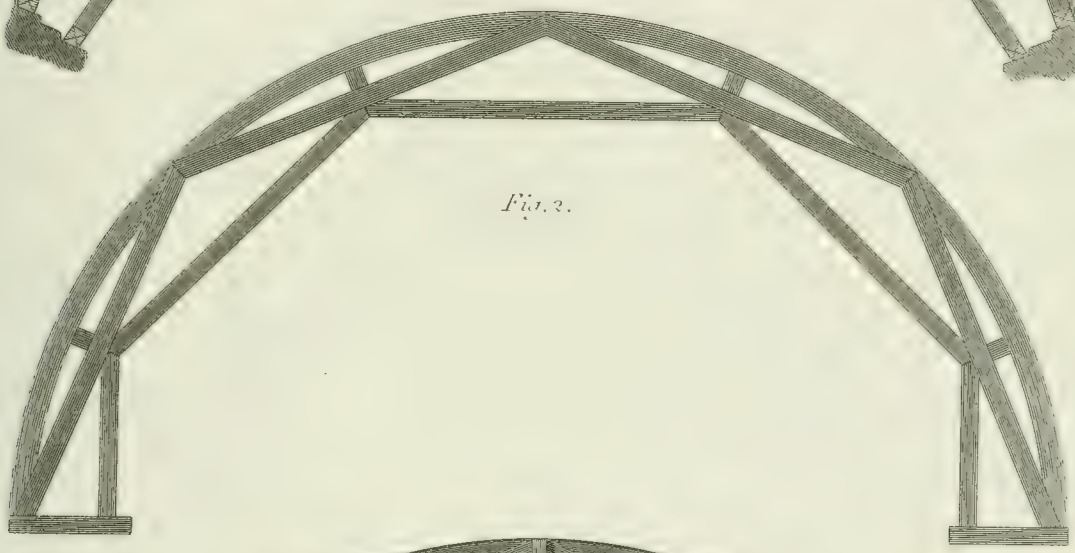

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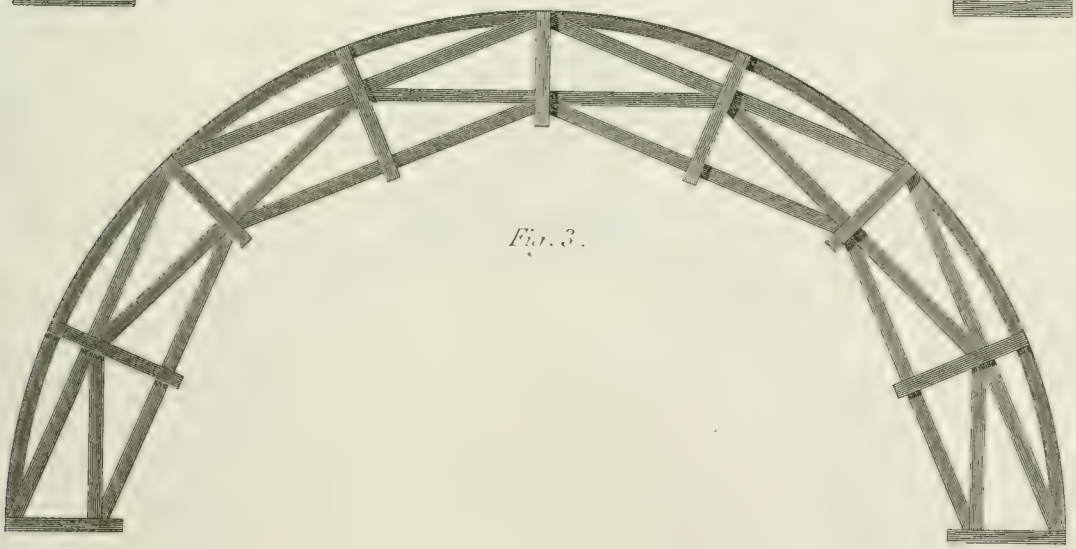

Fig. 3.

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CENTRES.

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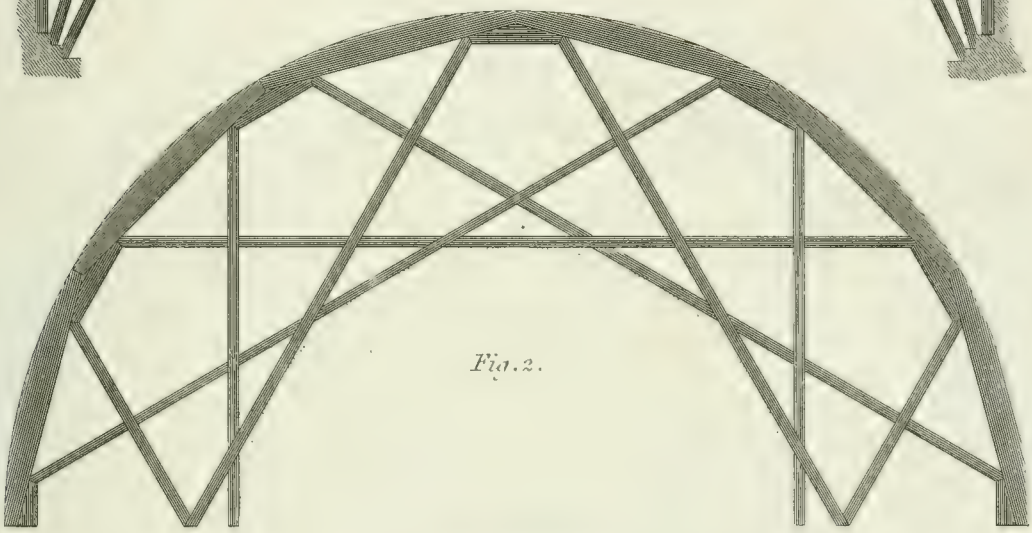

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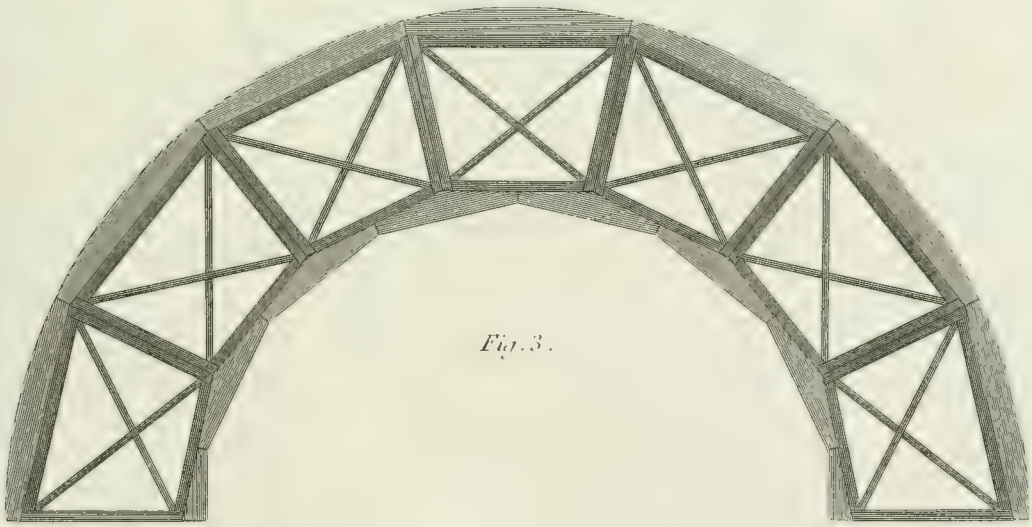

Fig. 3.

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CENTRES.

Fig. 1.

Fig. 2.

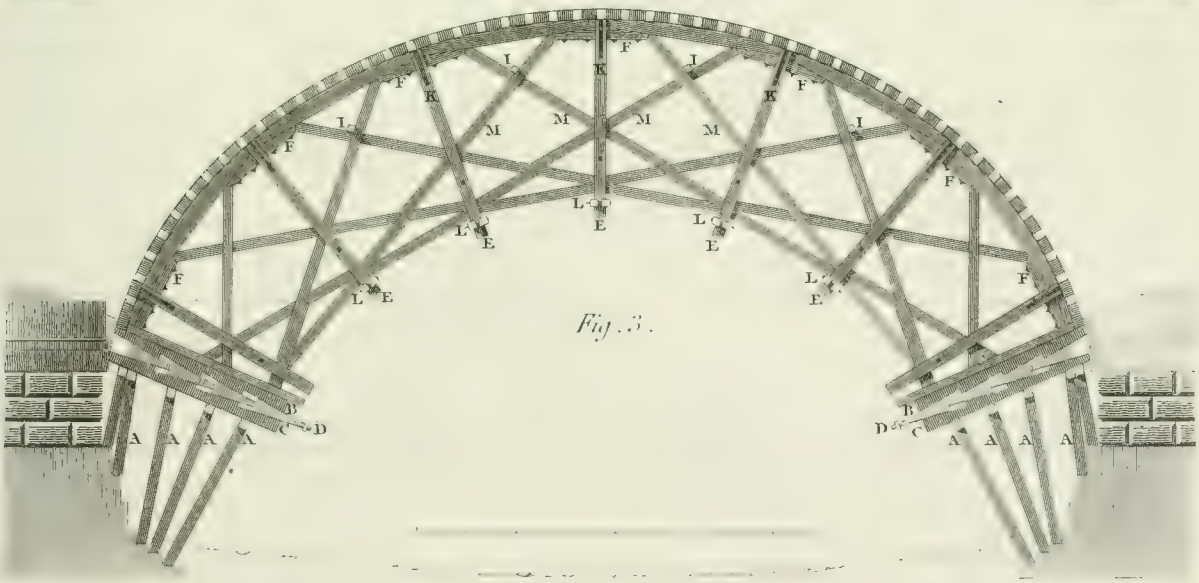

Fig. 3.

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ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1

Fig. 2.

Fig. 3.

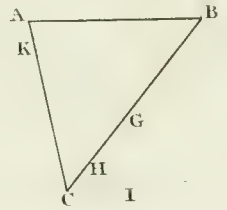
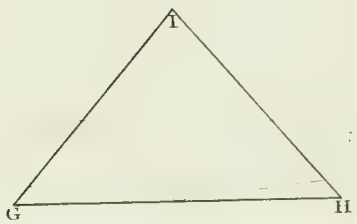


Fig. 4
N° 1.

Fig. 4
N° 2



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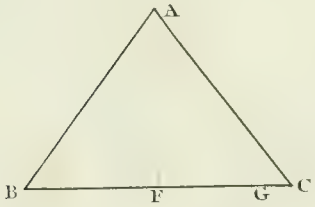

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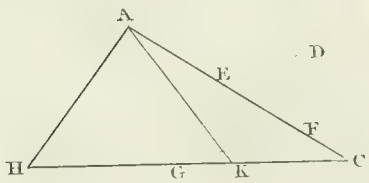

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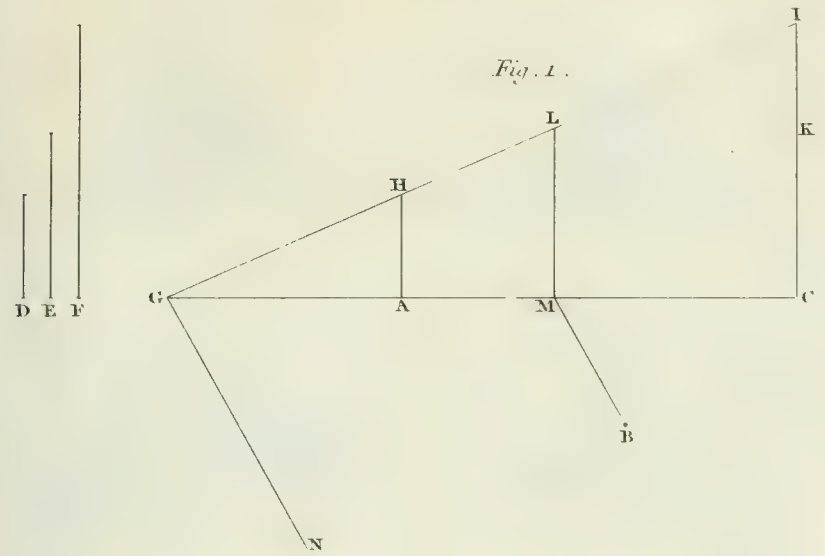
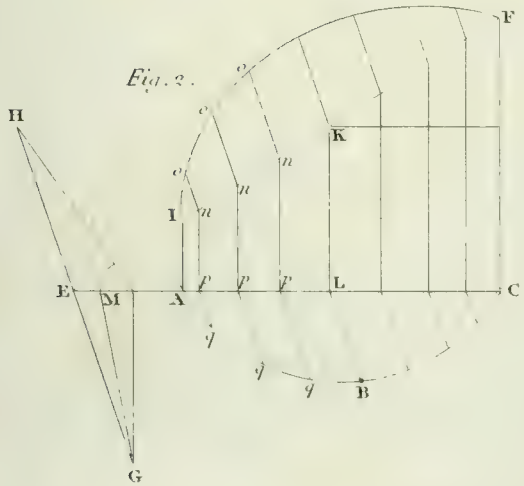
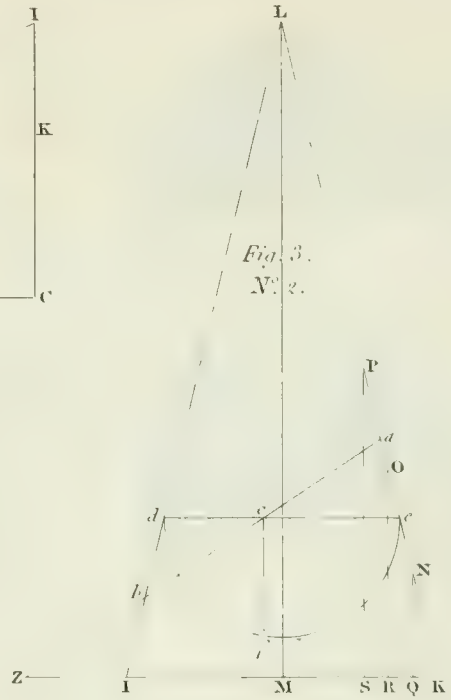
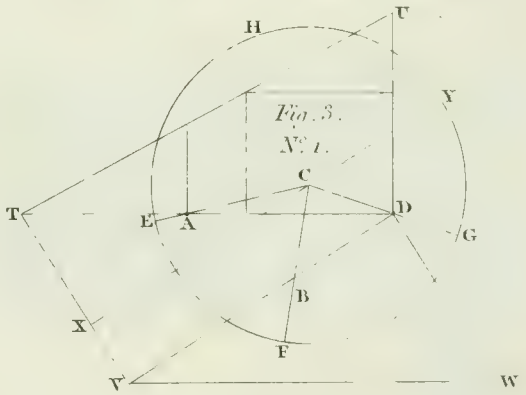
ARCHITECTURE.

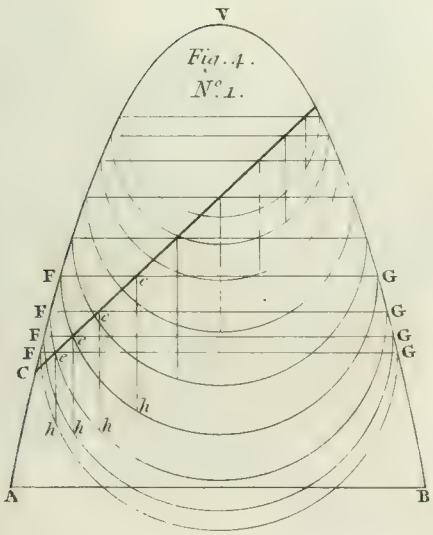
GEOMETRICAL PRINCIPLES OF CARPENTRY.

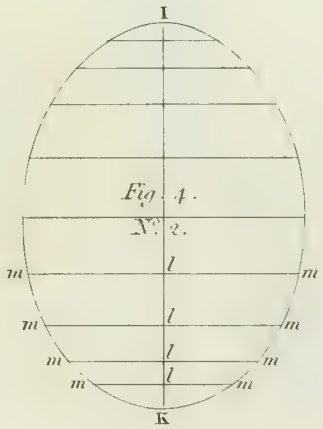


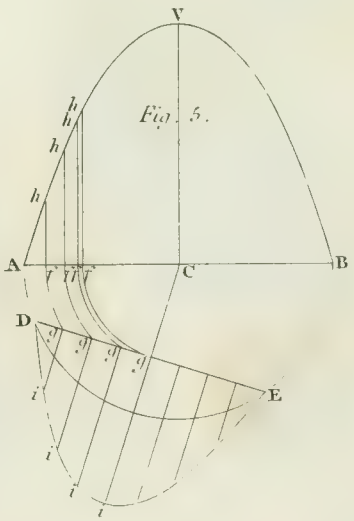












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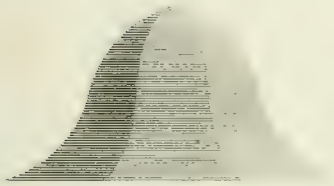
GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 3. N°. 2.



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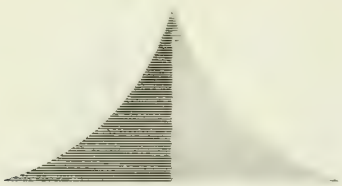

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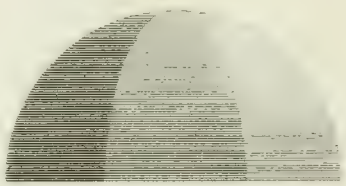

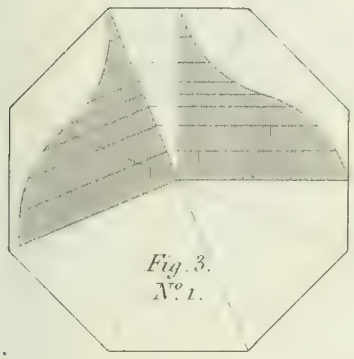

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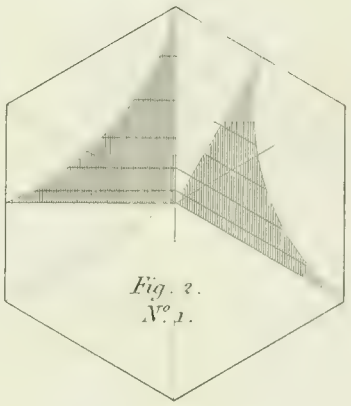

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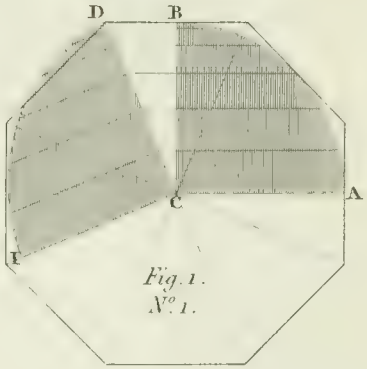
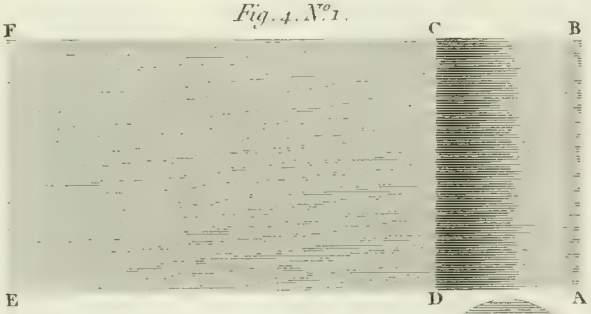
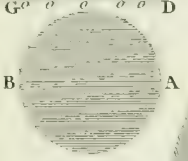


Fig. 1.
N°. 1.

Fig. 5.

Fig. 4. N°. 1.





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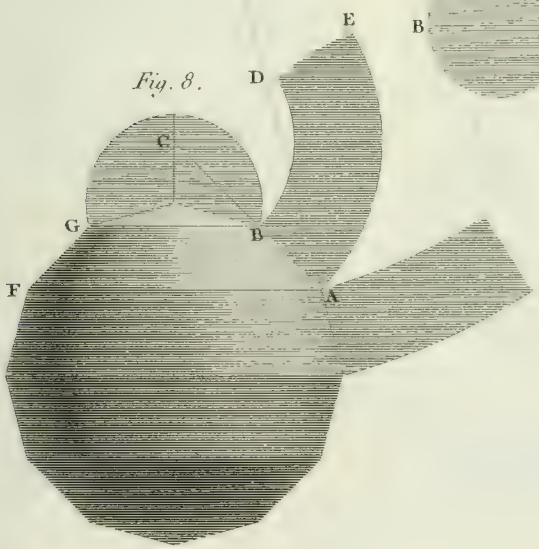

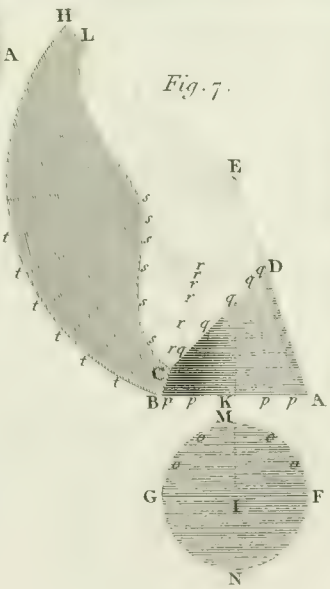

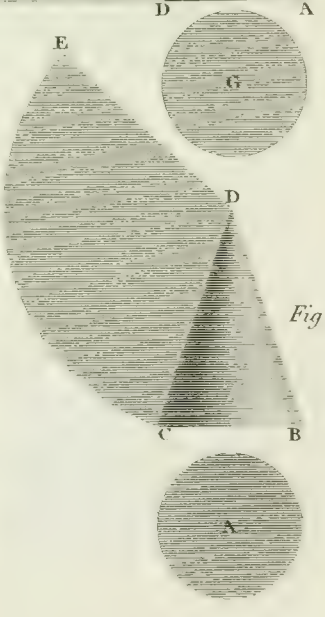

Fig. 6.

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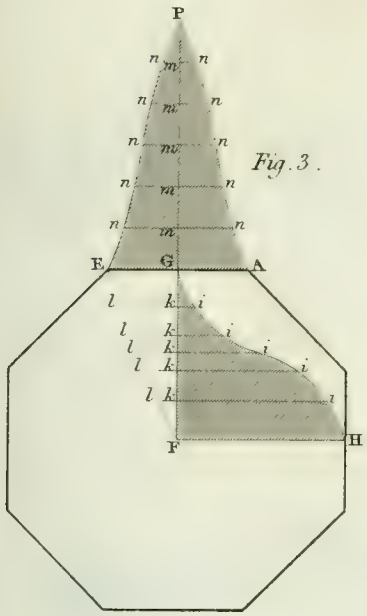
GEOMETRICAL PRINCIPLES OF CARPENTRY.



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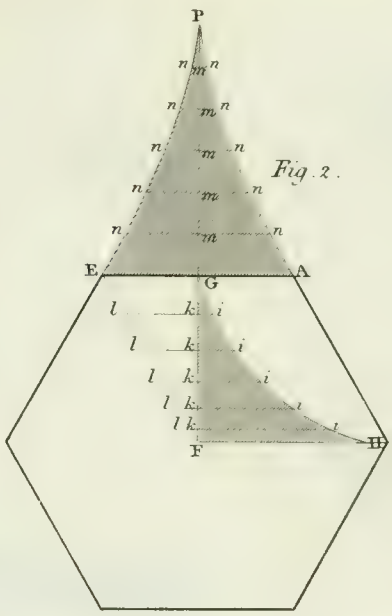

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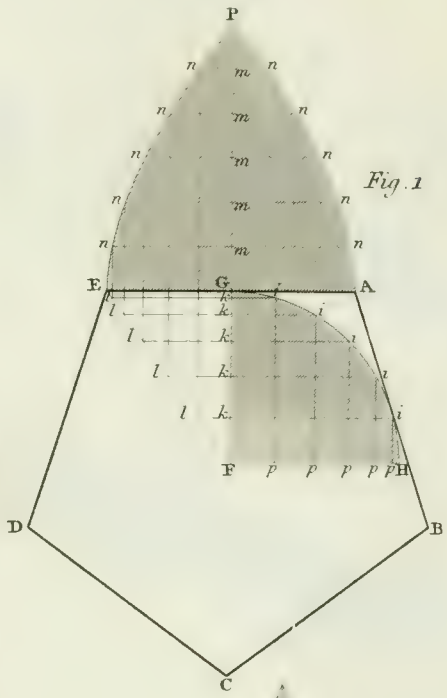
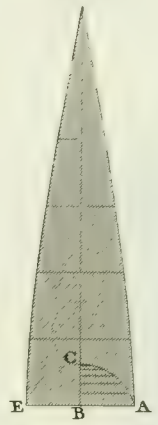
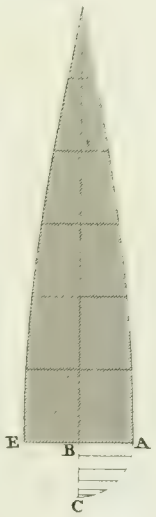


Fig. 1

Fig. 5.

Fig. 6.





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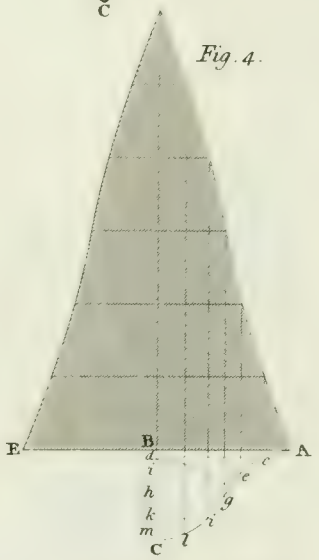

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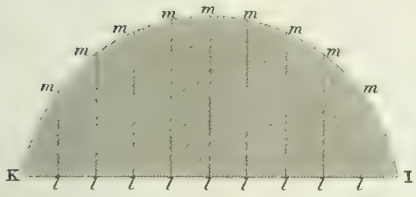

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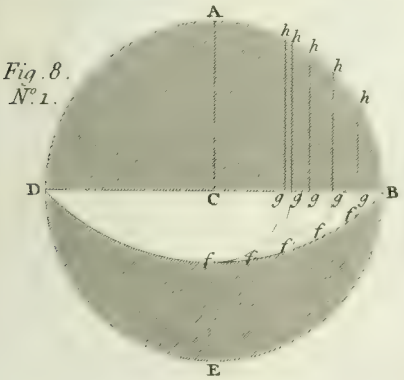

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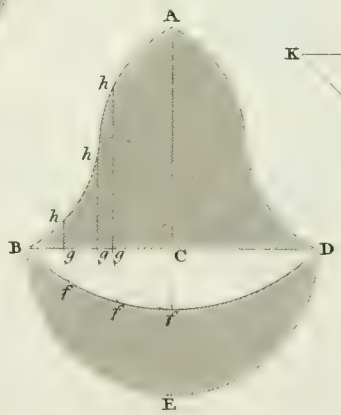

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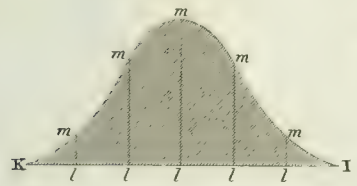

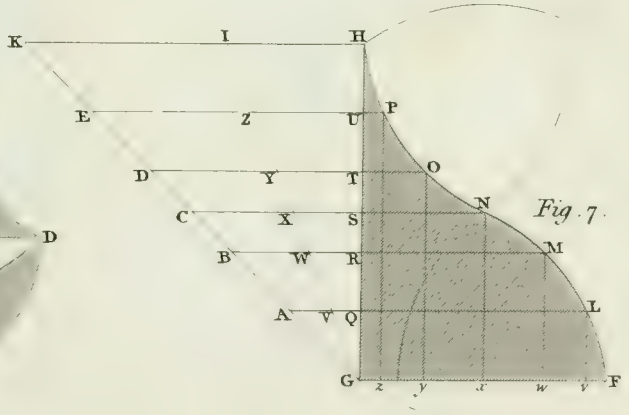

Fig. 7.

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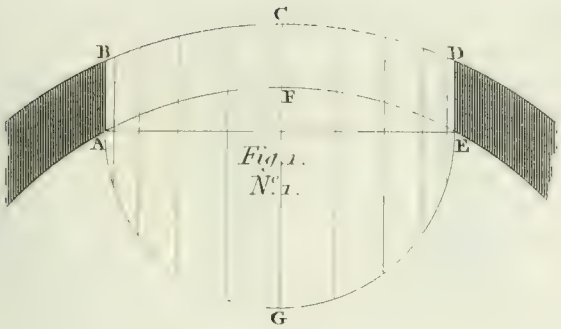
GEOMETRICAL PRINCIPLES OF CARPENTRY.



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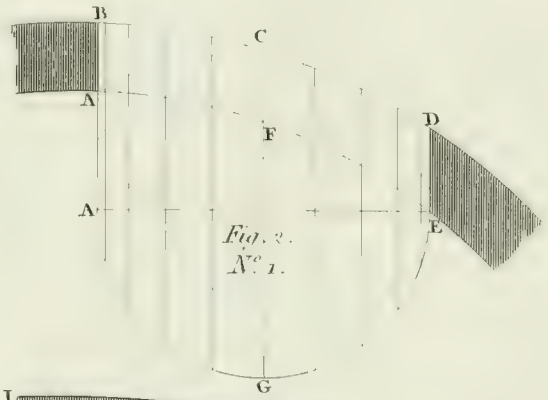

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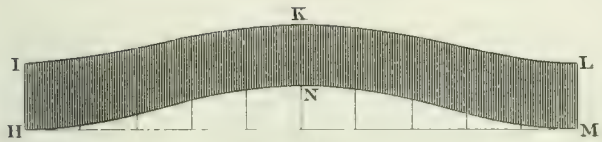

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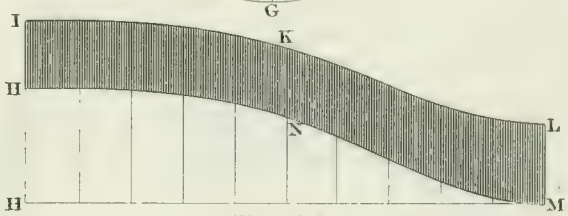

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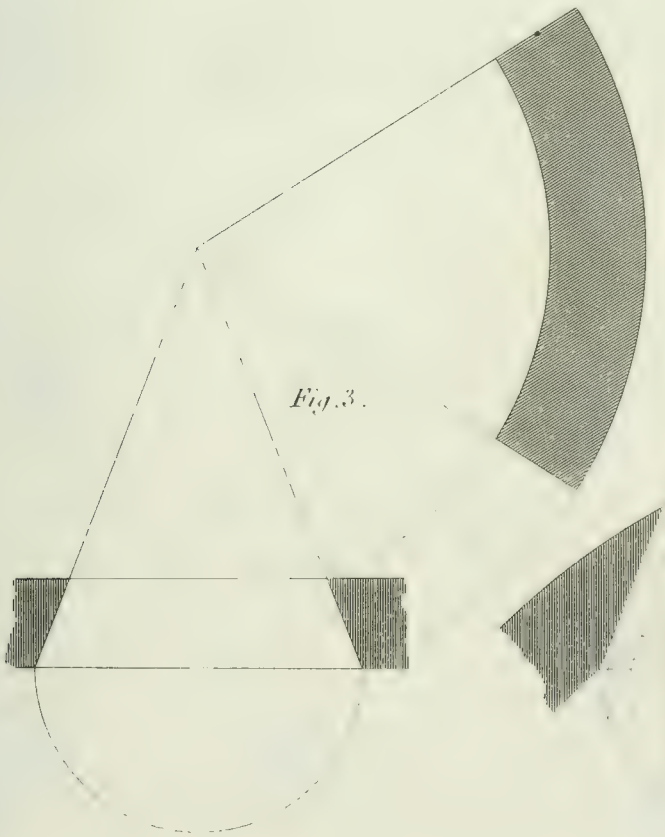

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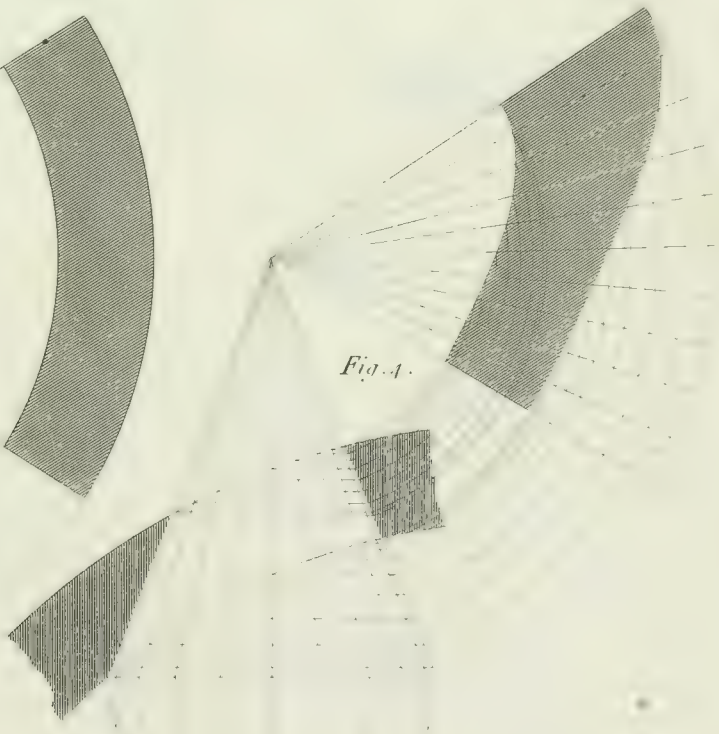

Fig. 4.

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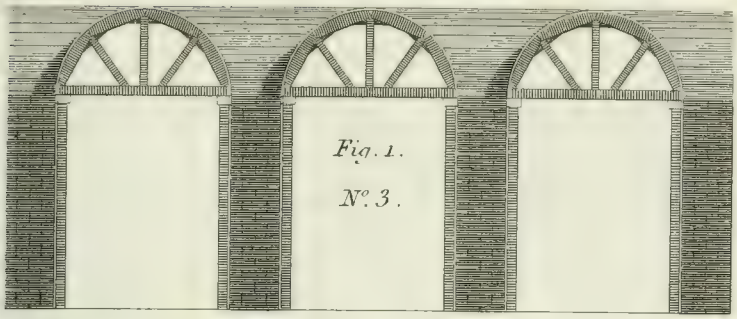
ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.



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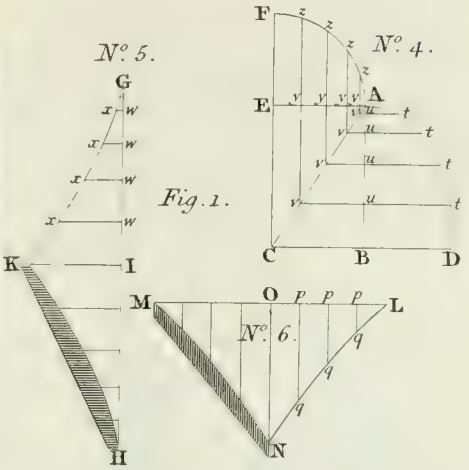

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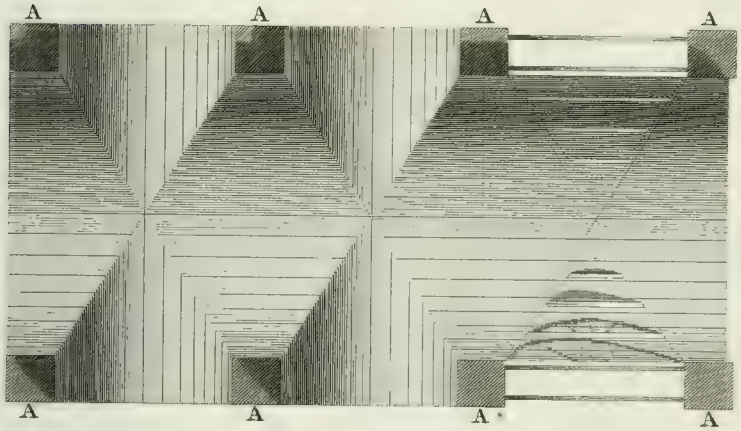

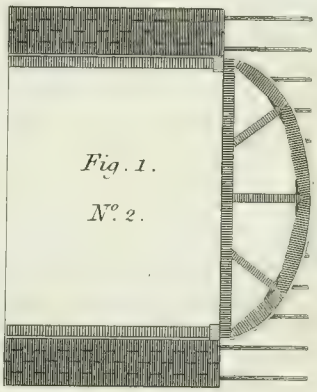

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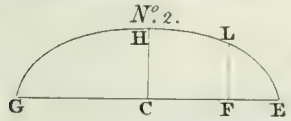

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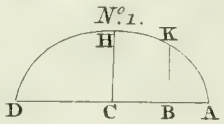

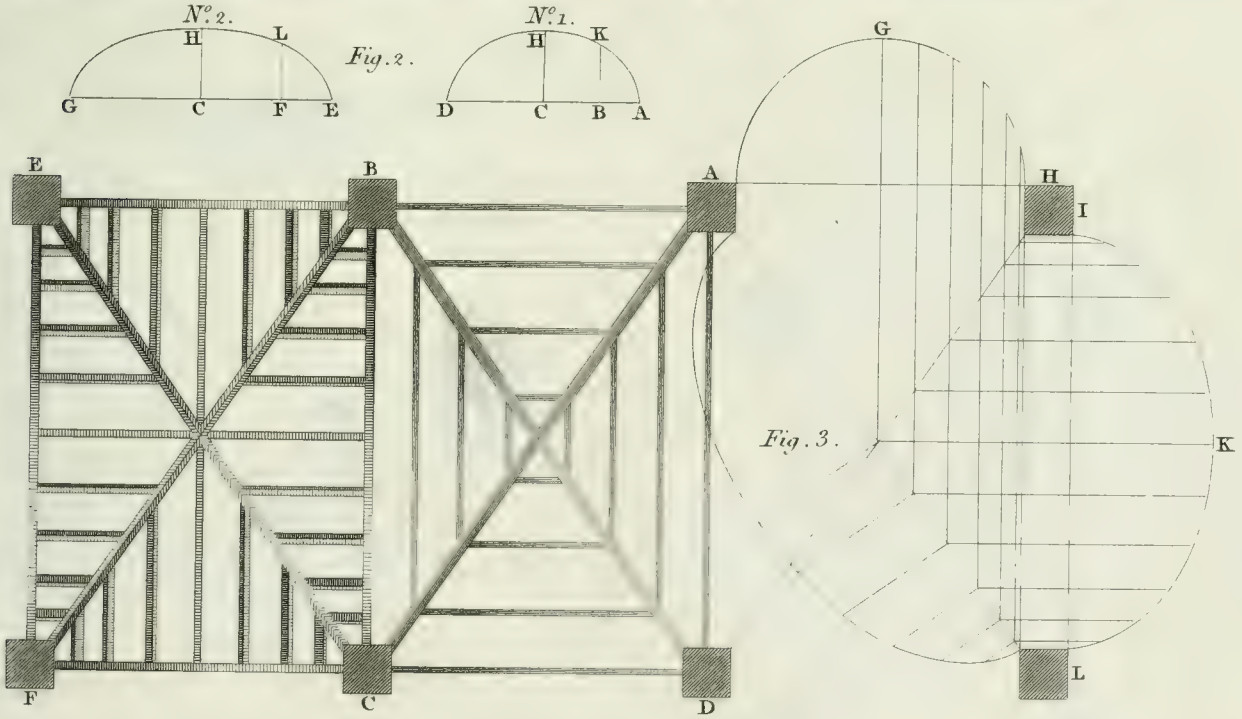

Fig. 3.

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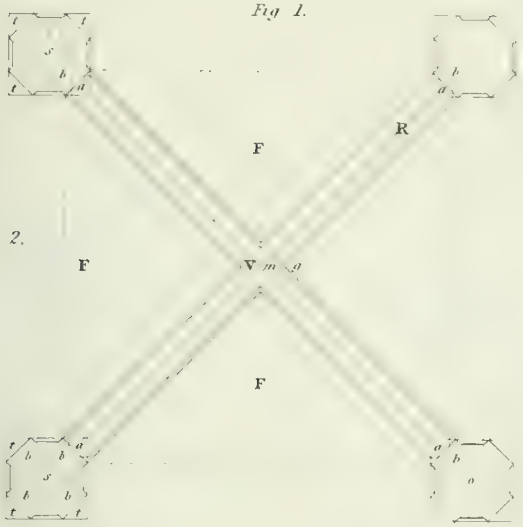
GROIN.

See Mr. Tappen's article and description of this Fig. under Groin.

Fig. 1.



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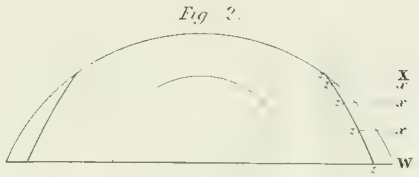

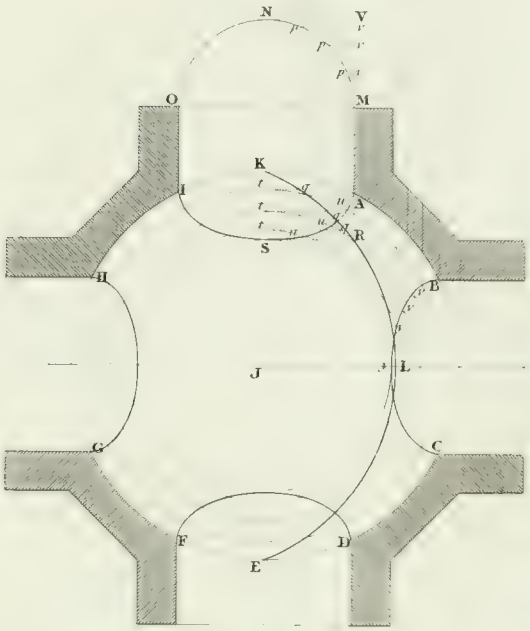

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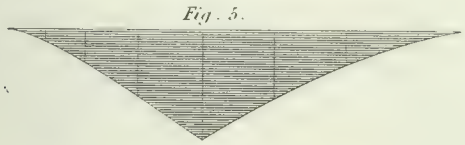

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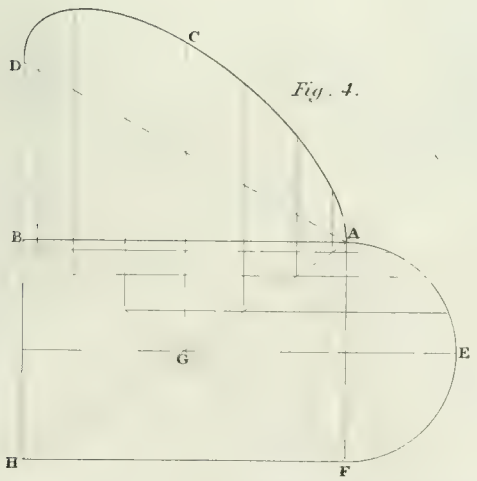

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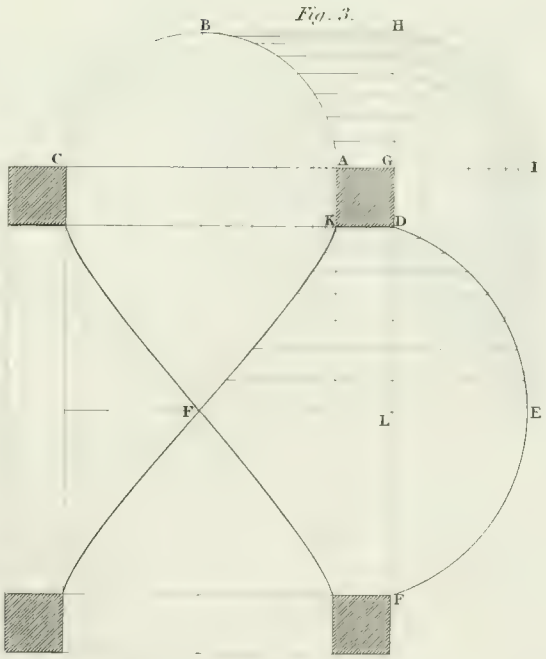
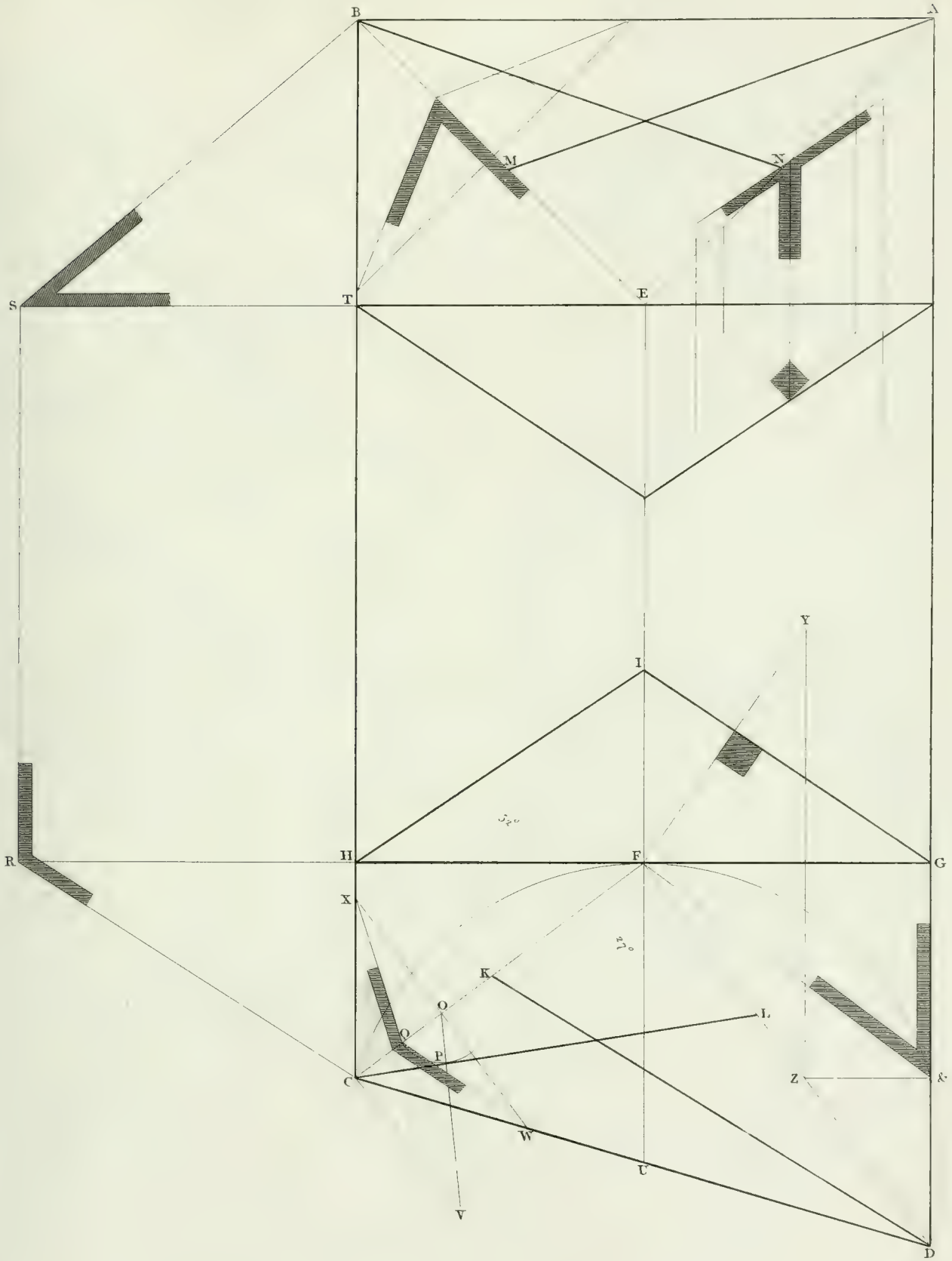


P. Nicholson del. Published as the Act directs, 1812, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry sculp

ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.



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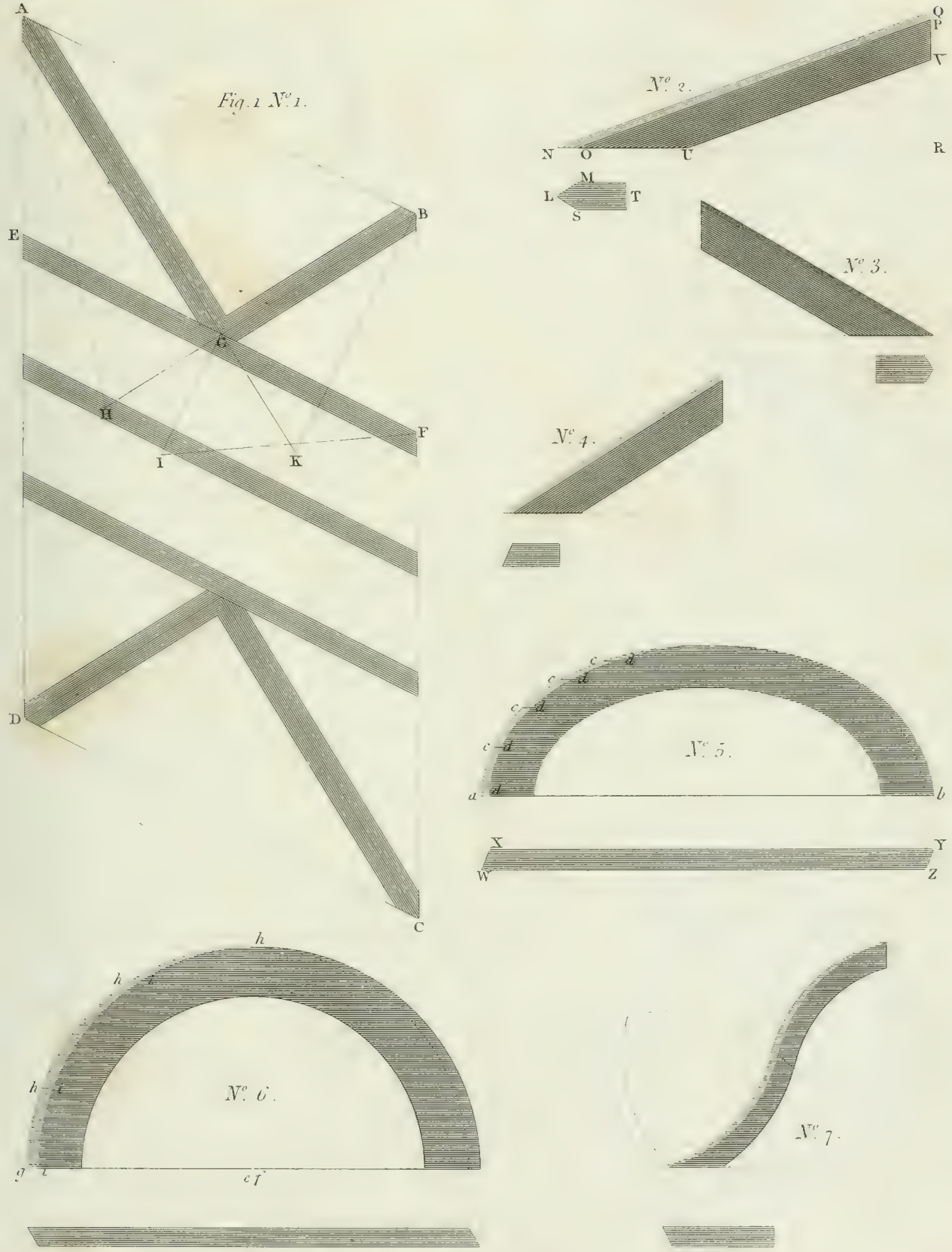
ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.



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GEOMETRICAL PRINCIPLES OF CARPENTRY.

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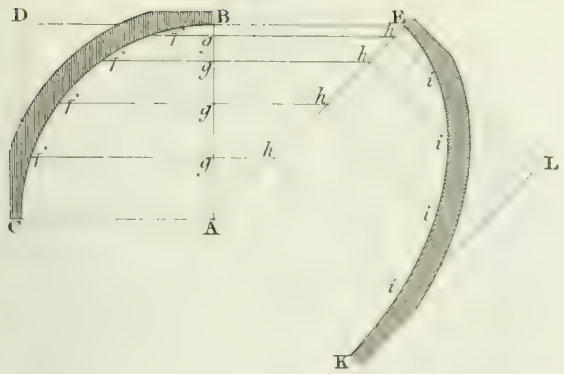

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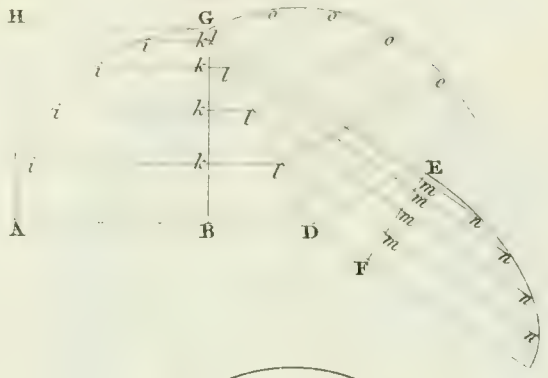

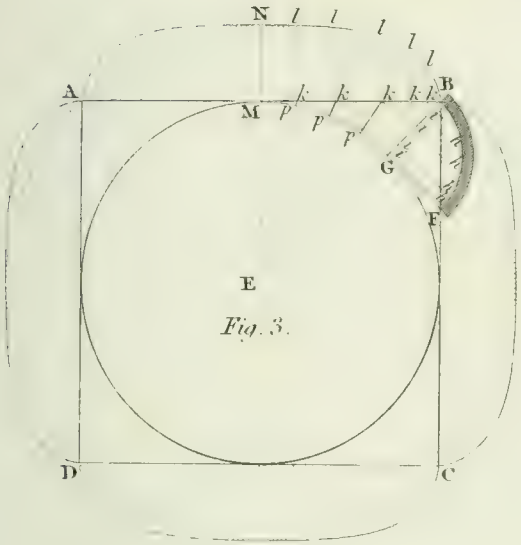

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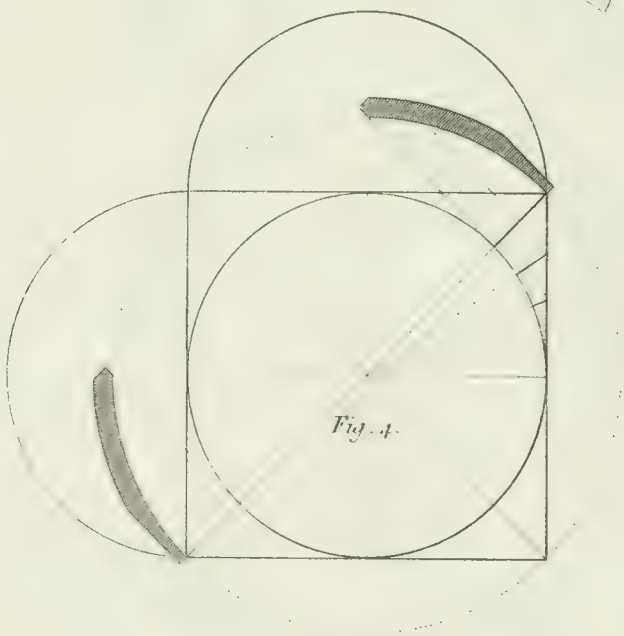

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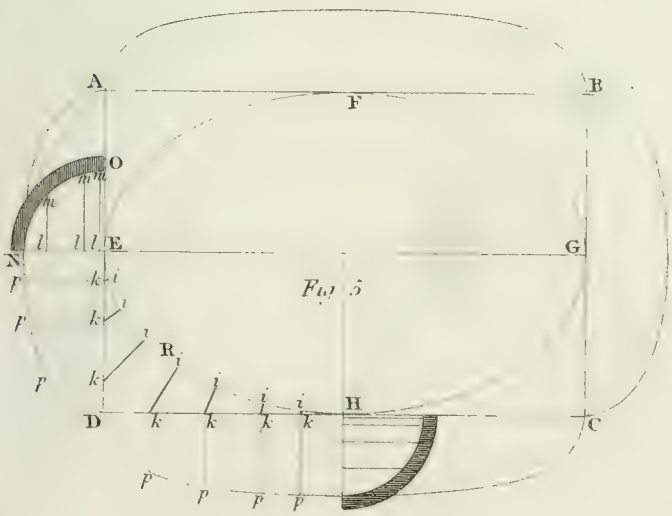

Fig. 5

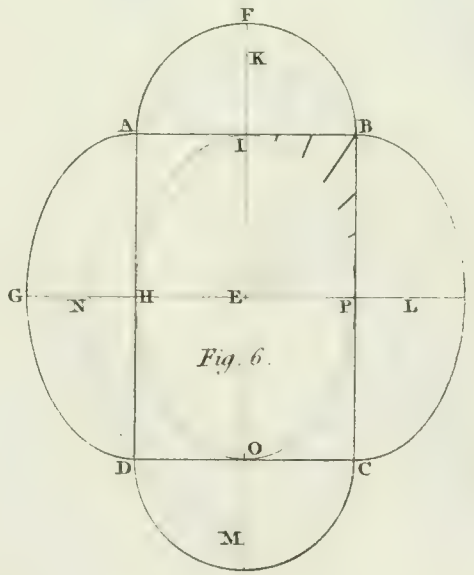

Fig. 6.

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GEOMETRICAL PRINCIPLES OF CARPENTRY.

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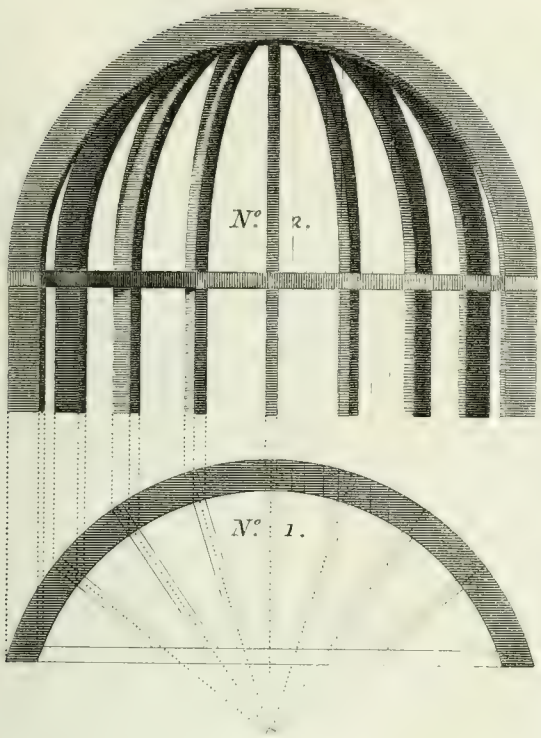

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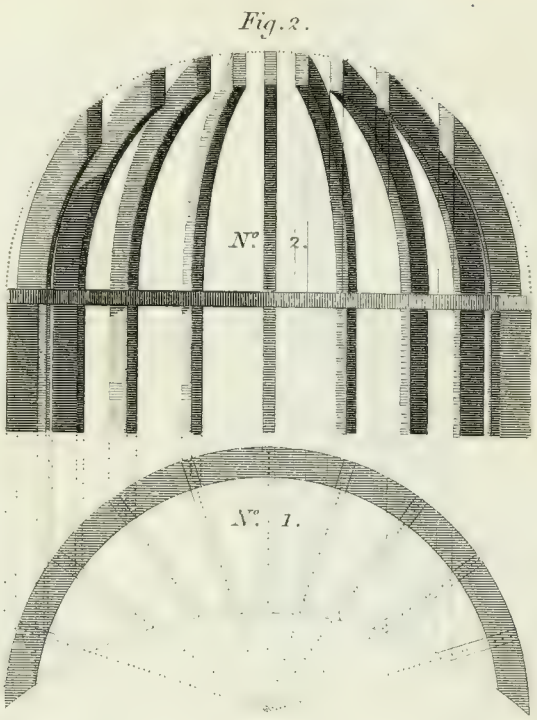

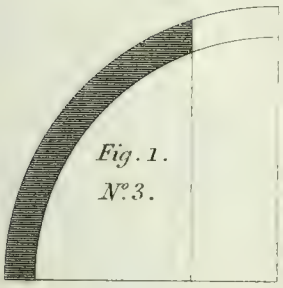
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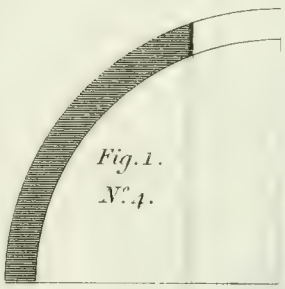
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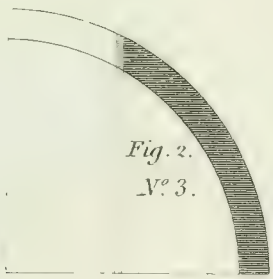
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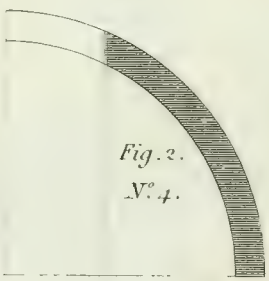
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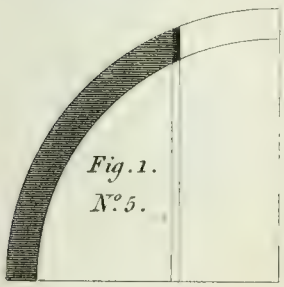
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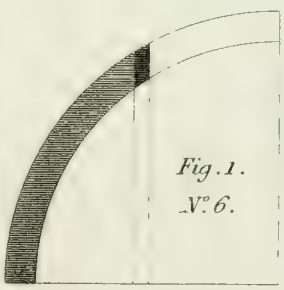
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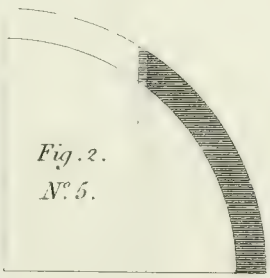
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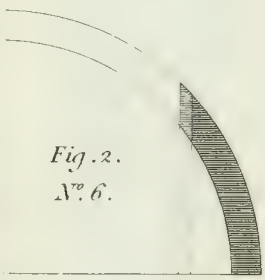
Fig. 2.
N°. 6.

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ARMOUR.

Ancient Bronzes.

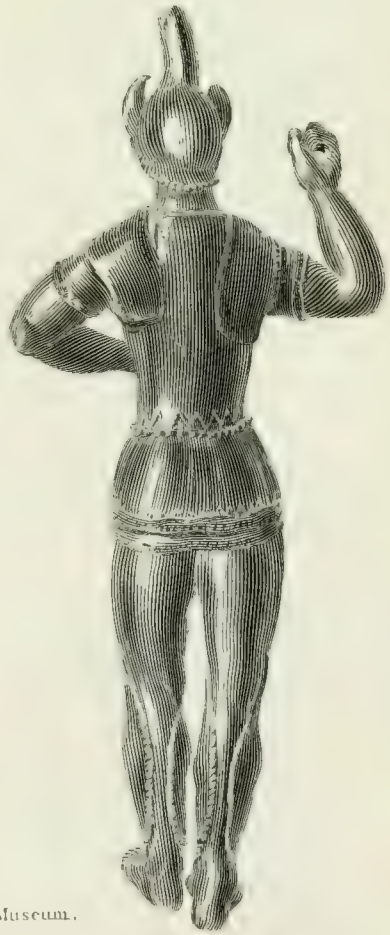
B

A

B

C

D



C

A.D. In the Collection of Payne Knight Esq^{r} — B.B.C.C. In the British Museum.

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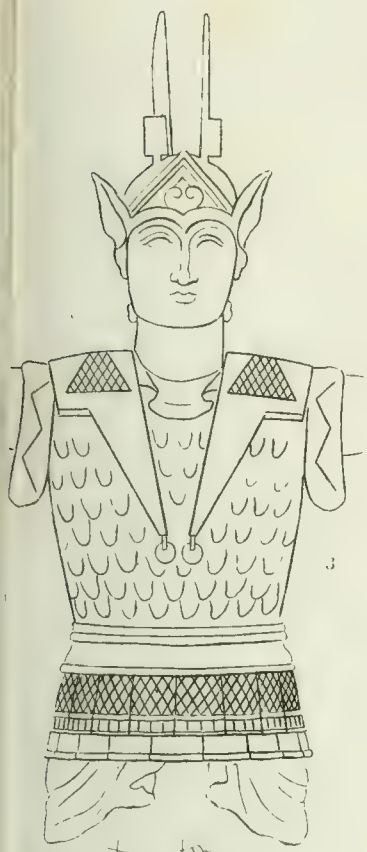

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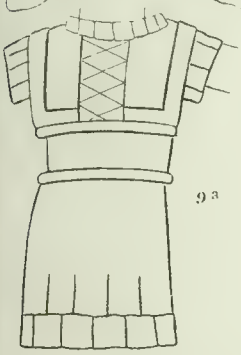

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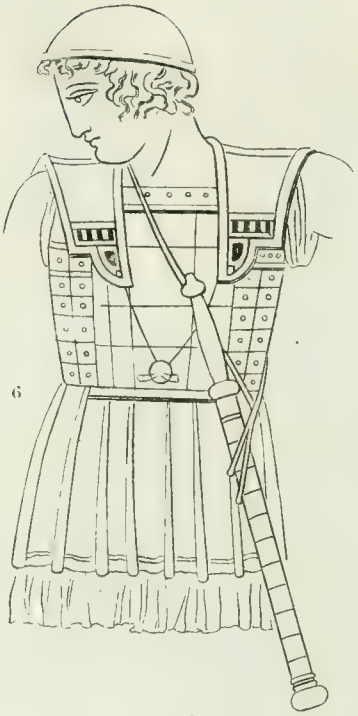

6

7

1

2

Fig 1 & 2 from Denon.
3. 4. 7 & 9 a. from the Tuscan Gallery
5. from a Gem.
6. from Sr W.m Hamilton's Vases
8. A Bronze in the British Museum

J Harraden Del. et Sc.

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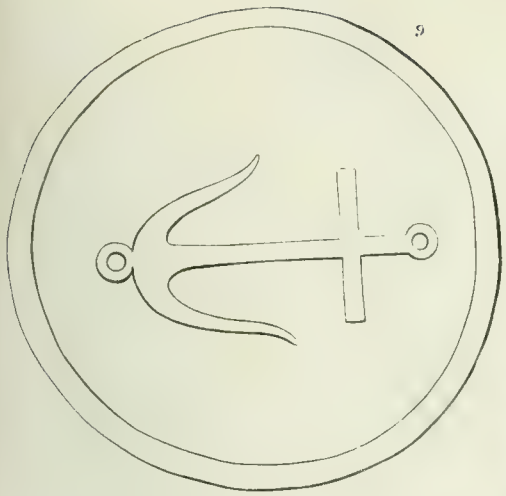
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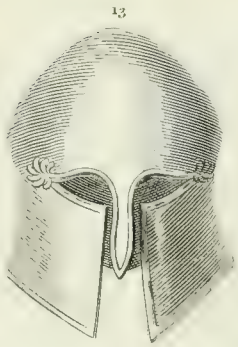
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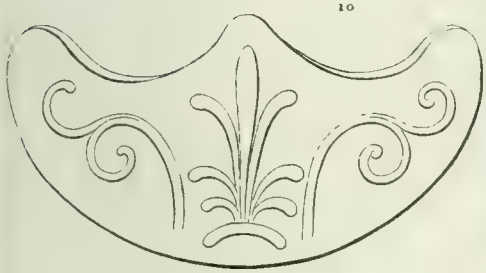
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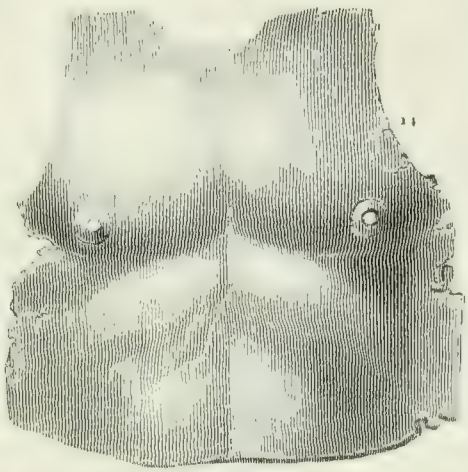
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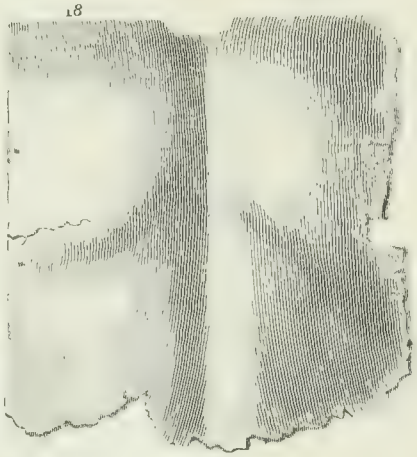
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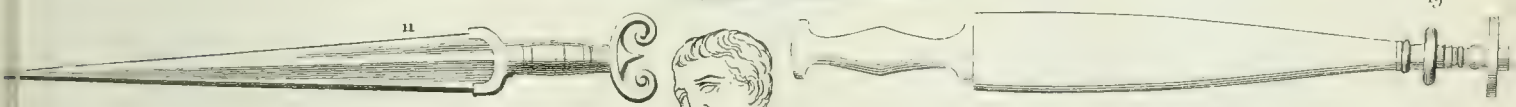
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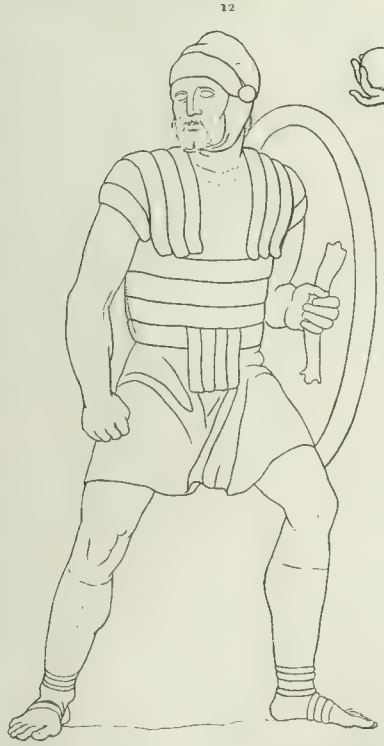
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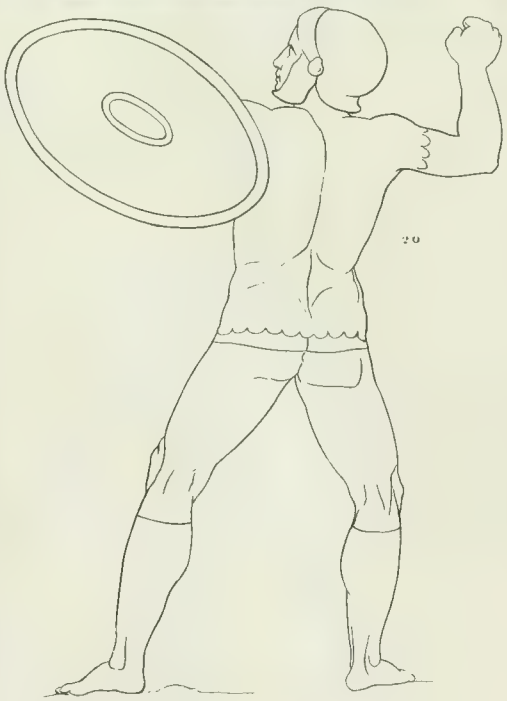
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Fig.11.13.14.16.17.18.19 in the British Museum.
9 & 10 from Sr W.m Hamilton's Vases.

Fig.12.15 and 20 from Bartoli's Triumphal Arches.

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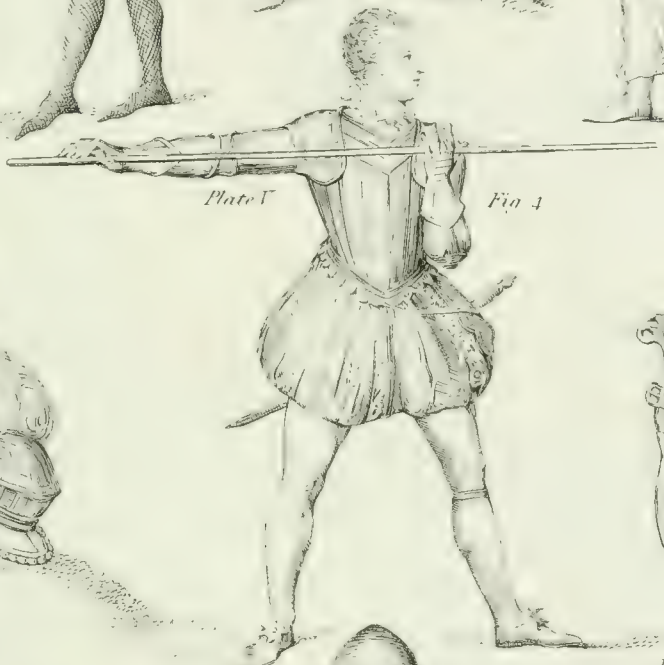

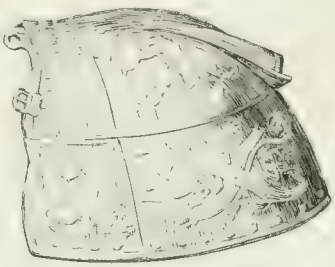

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ARTILLERY.

BATTERING RAM and CATAPULTA.

PLATE I. ARIES, or Battering Ram.

PLATE II. CATAPULTA, used by Lord Heathfield, at the Siege of Gibralter.

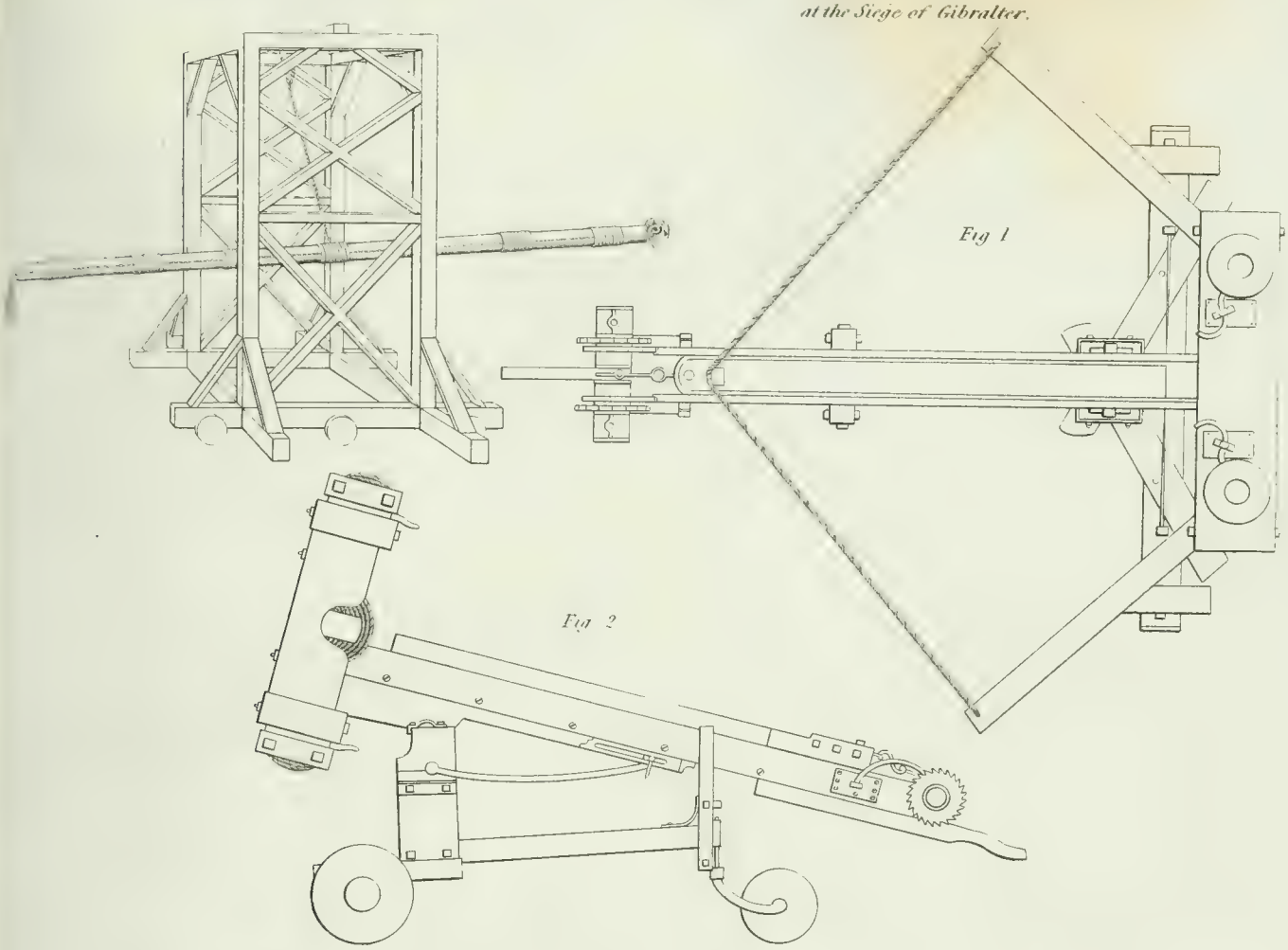


Fig 1

Fig 2

Fig 3

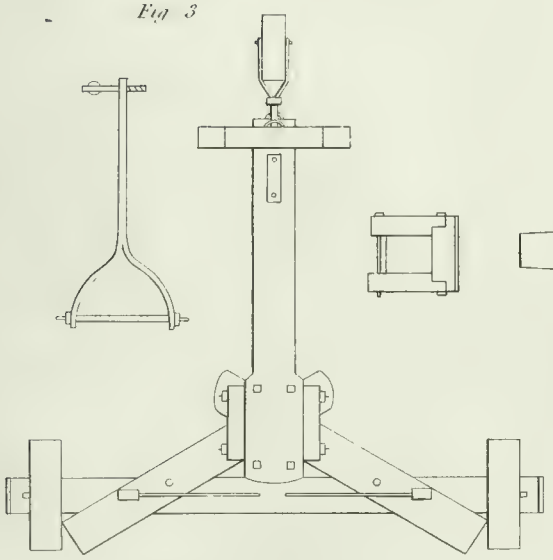
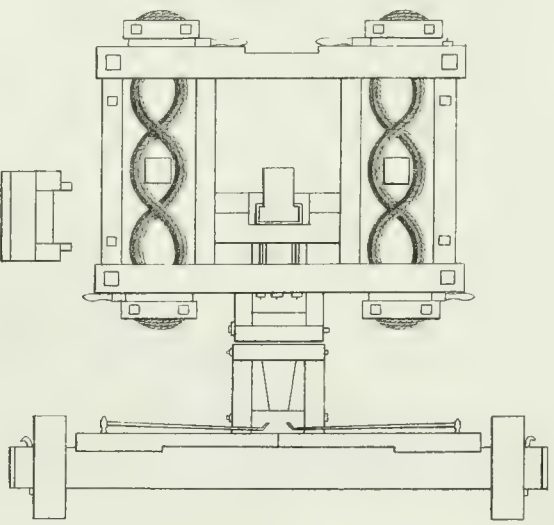


Fig 4



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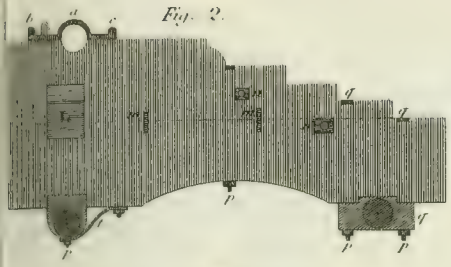
ARTILLERY.

CARRIAGES.

Fig. 2.



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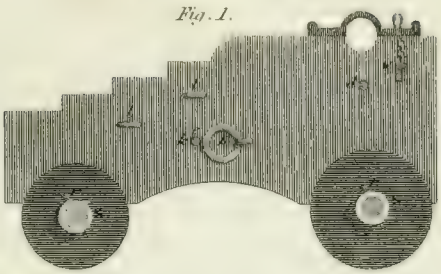

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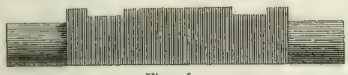

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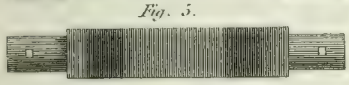

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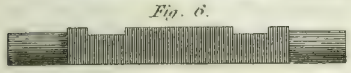

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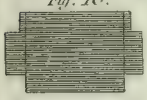
Fig. 10.



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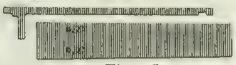

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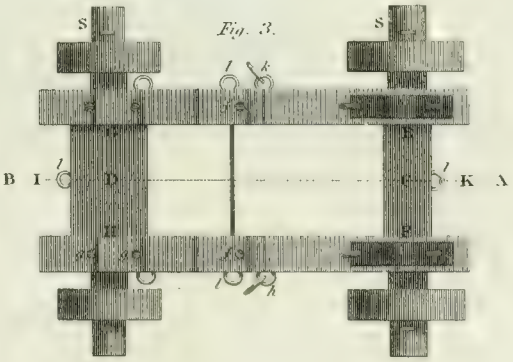

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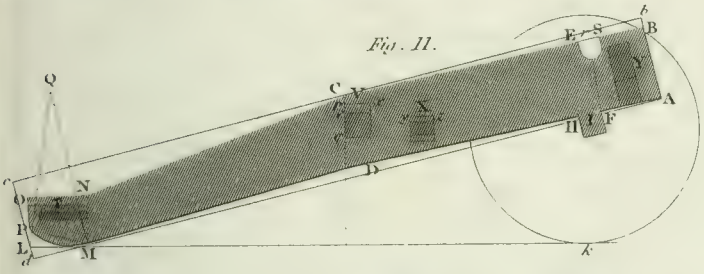

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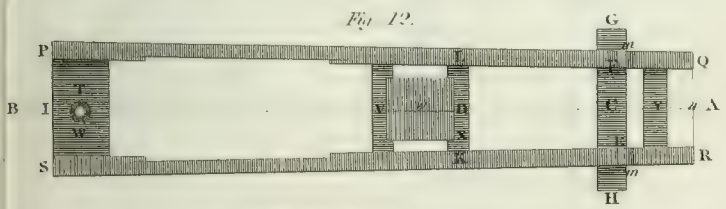

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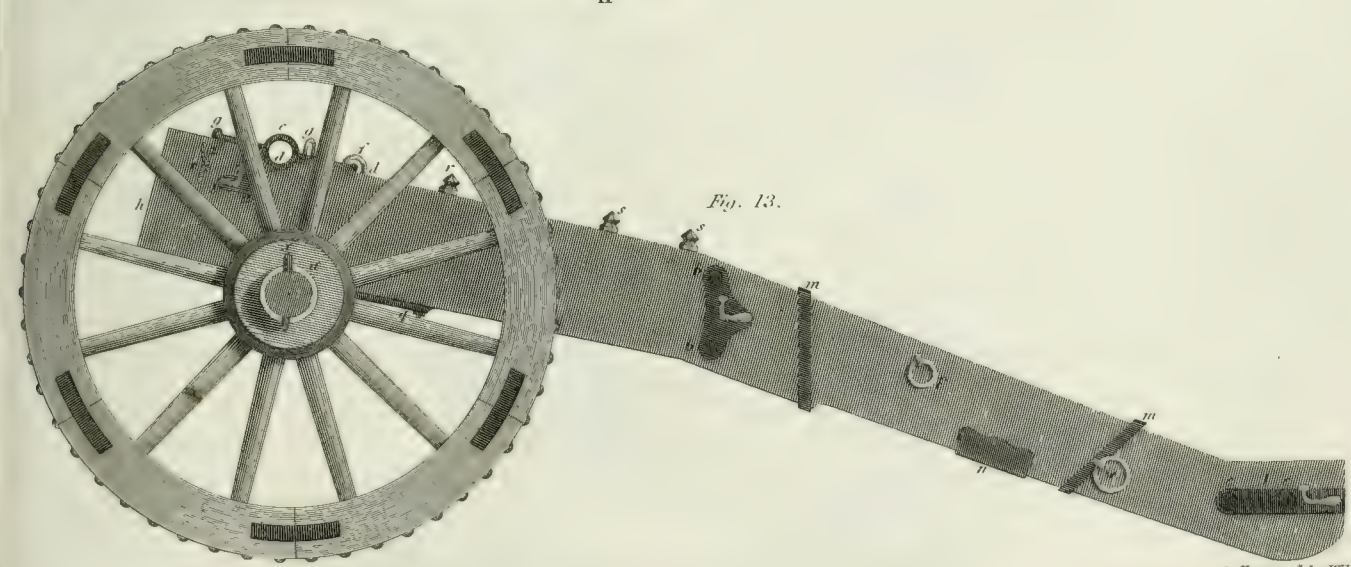

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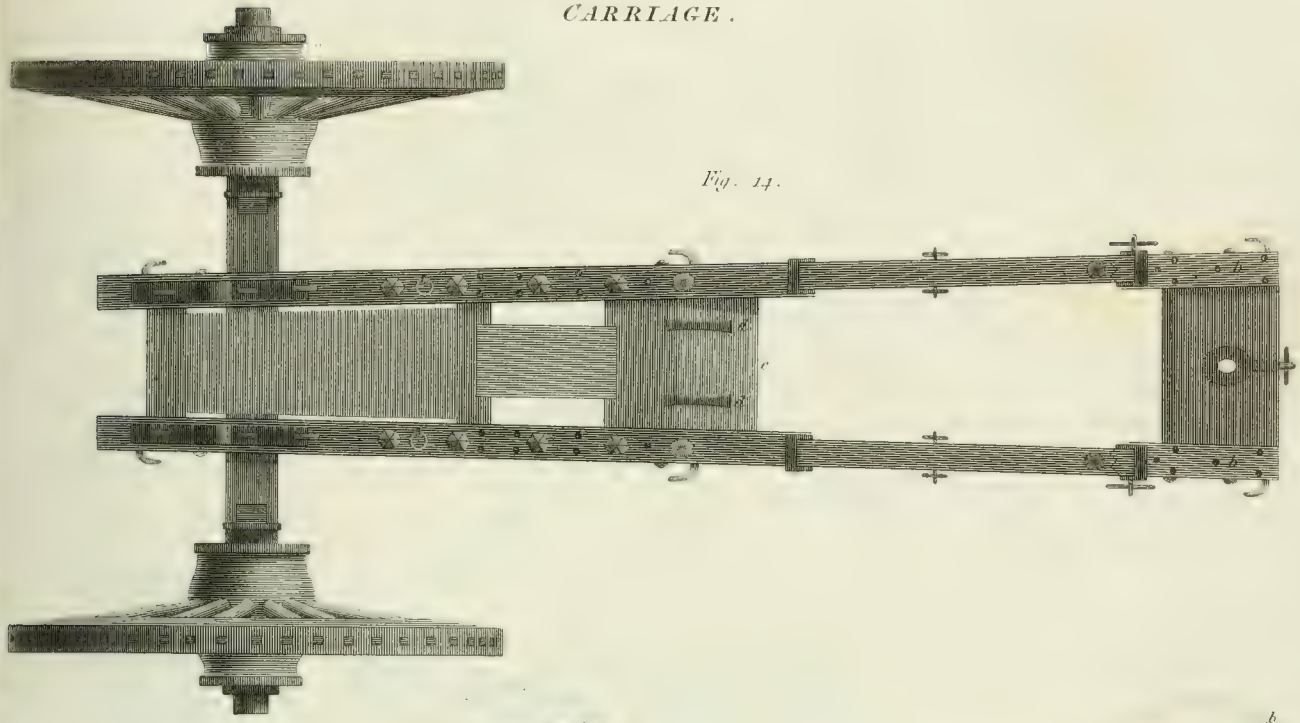
CARRIAGE.

Fig. 14.



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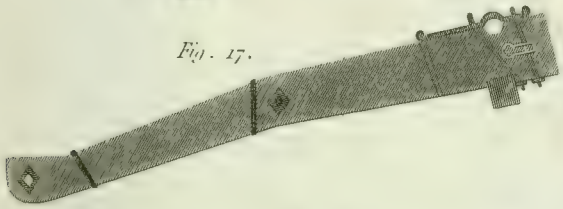

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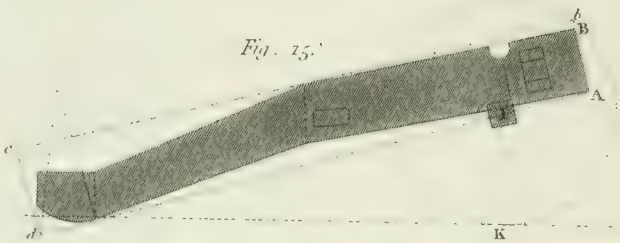

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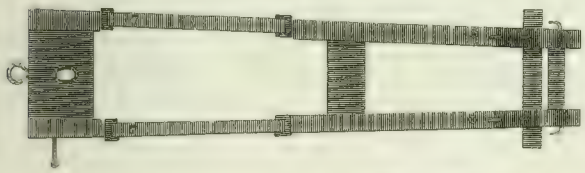

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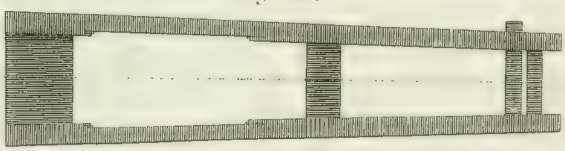

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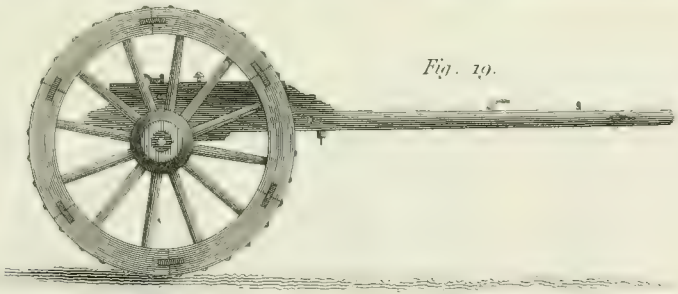

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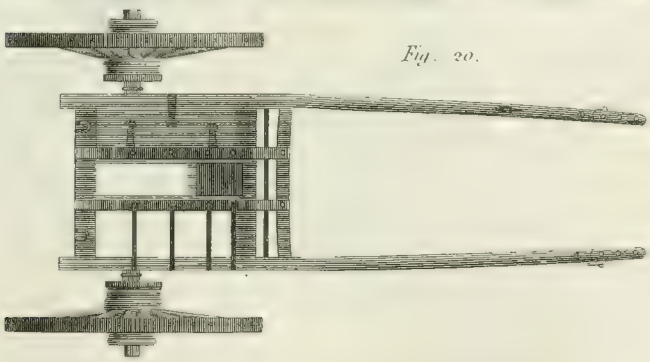

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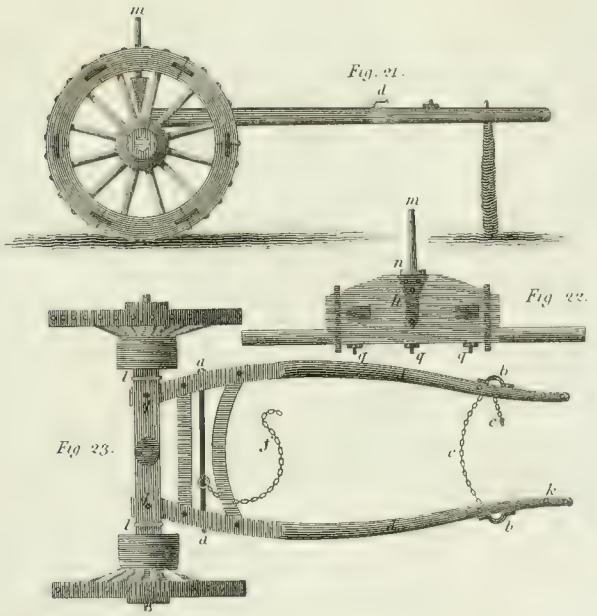

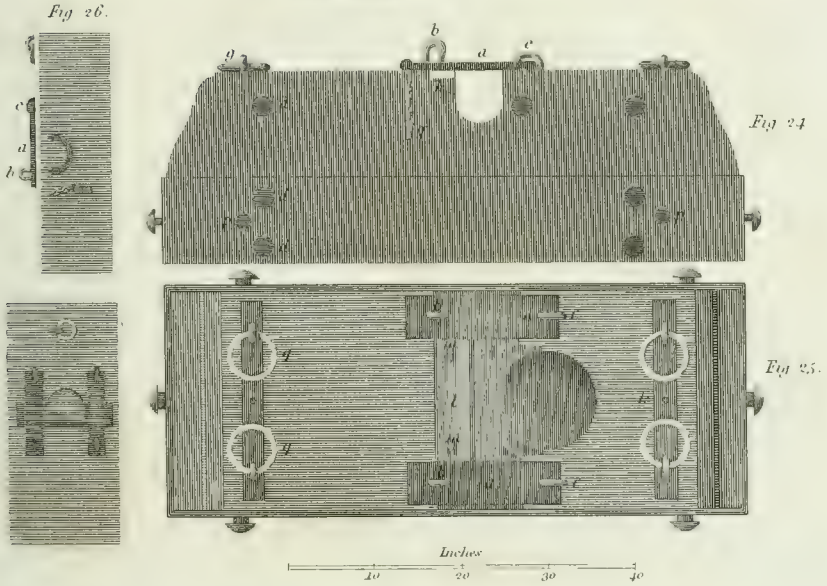

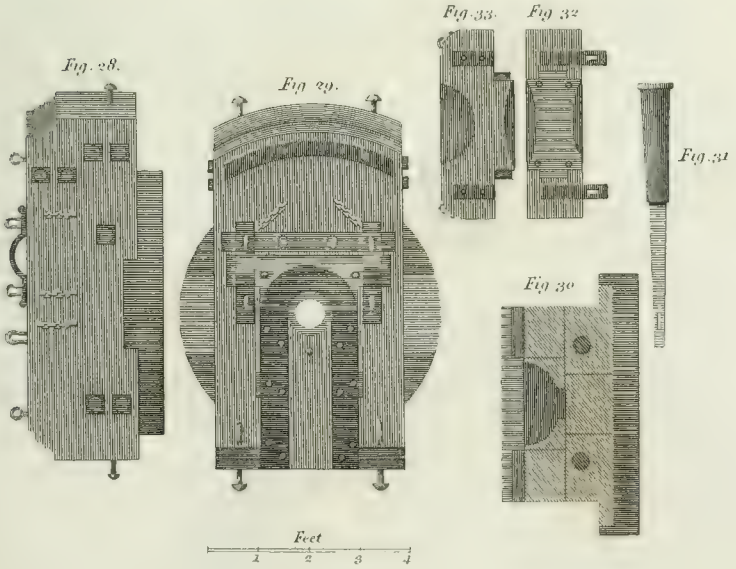

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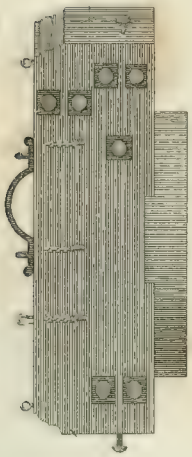
Fig. 34.



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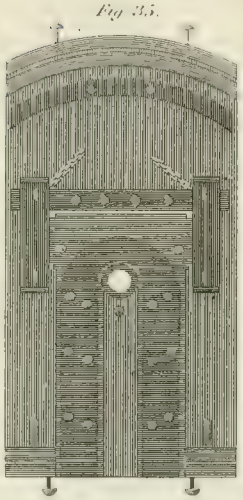

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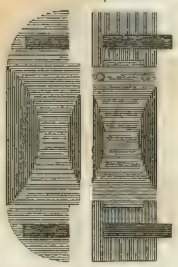
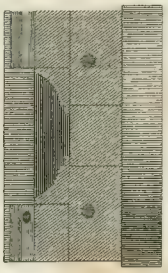


Fig. 39

Fig. 37.



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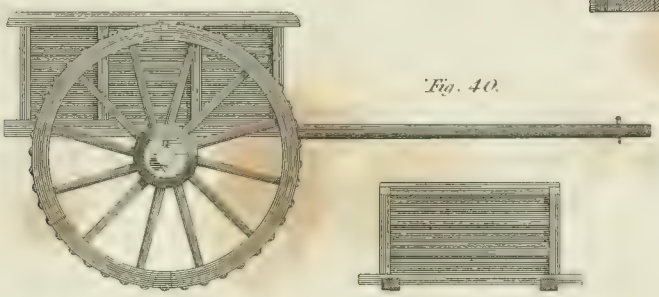

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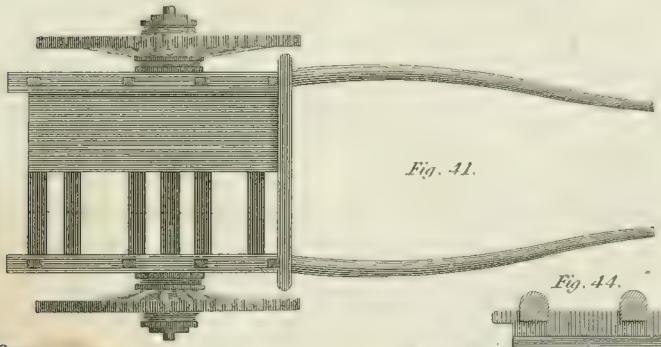
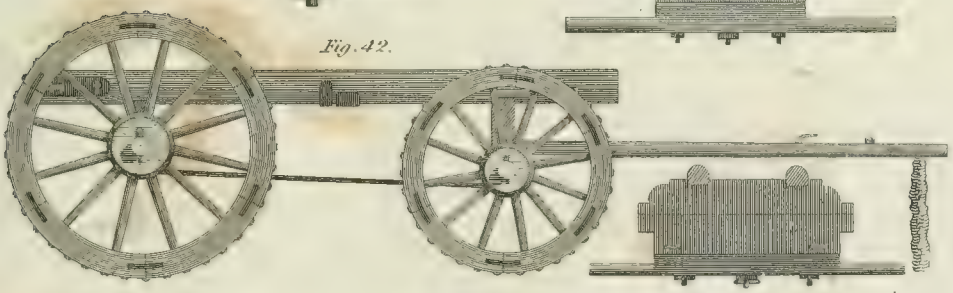


Fig. 41.

Fig. 44.

Fig. 42.



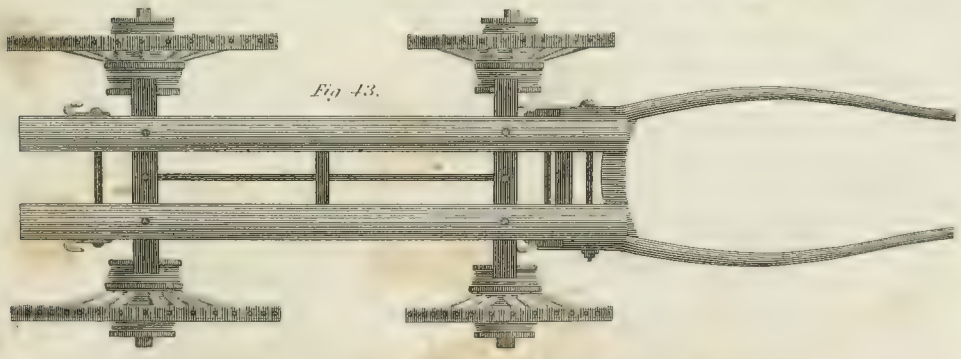


Fig. 43.

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Truck Carriage.

Fig. 45 to 48.

Elevation.

a Fore Bolster.
b Hind Bolster.
c Truck.

Shaft

Hind Section

Fore Section.

Side Piece

Plan

Ammunition Waggon.

Fig. 49 to 52.

a Fore Bolster.
b Hind Bolster.
c Sommers & Sides
d Pole
e Middle Bar.
f Hind guide
g Fore guide.
h Sweep Bar.
i Raves.
k Flat Staves.
l Round d°
m Shaft Bar.
n Tong.
o Shaft Bolt.
p Bolster Pin.
q Pole Pin.
r Swing Tree

Rave

Elevation

Plan

Fig. 53.

Powder Cart.

Elevation

Fig. 54.

Plan

Plan of Sling Waggon.

Fig. 55 to 58.

Elevation

Elevation of Sling Cart.

Fig. 59.

Fig. 60.

Plan

Fig. 61.

Travelling Carriage.

Elevation

Plan

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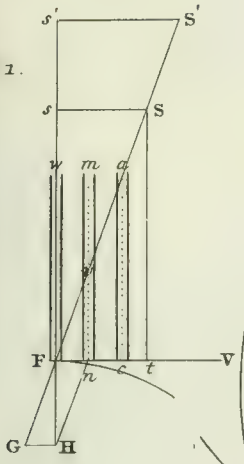
ABERRATION

Fig. 1.



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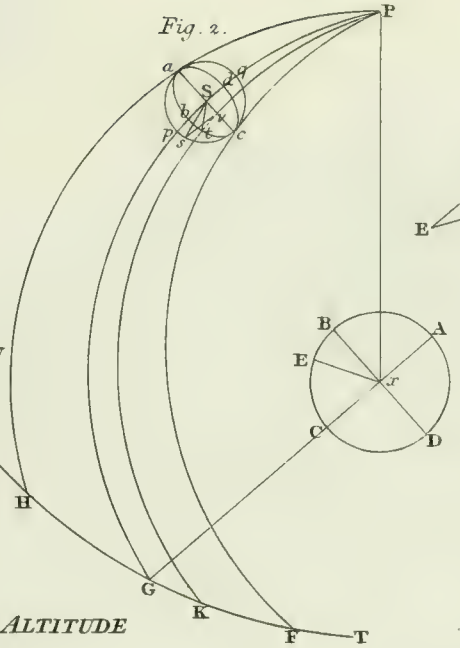

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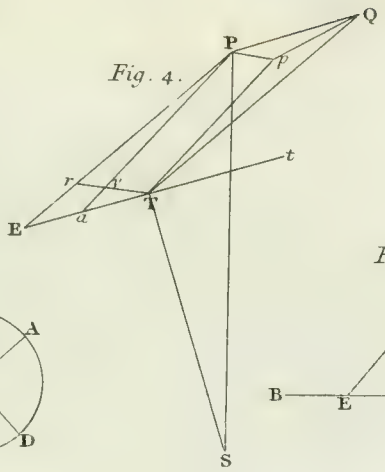
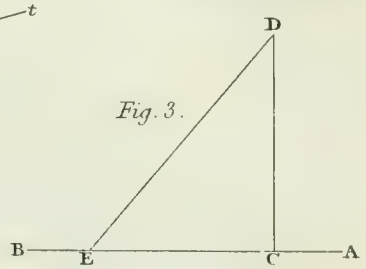


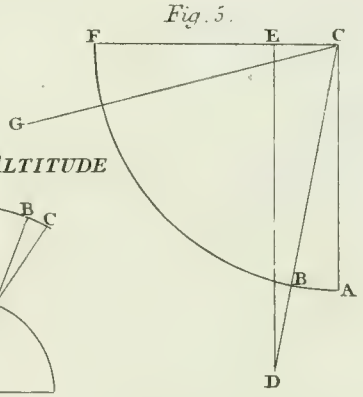
CULMINATION

Fig. 3.



ALTITUDE

Fig. 5.



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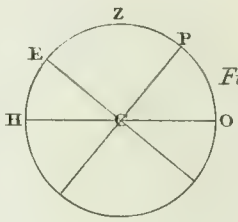
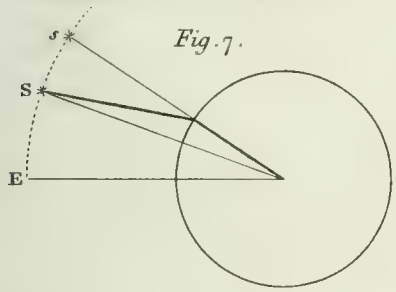


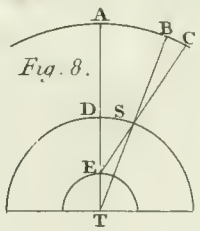
REFRACTION OF ALTITUDE

Fig. 7.



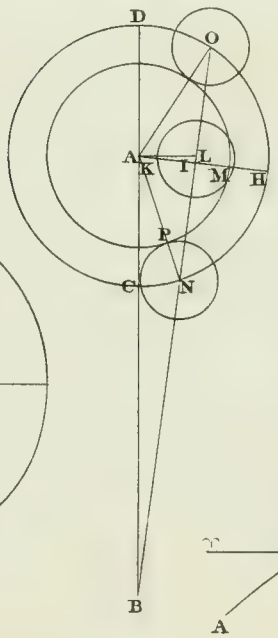
PARALLAX OF ALTITUDE

Fig. 8.



ARC

Fig. 11.



AREA

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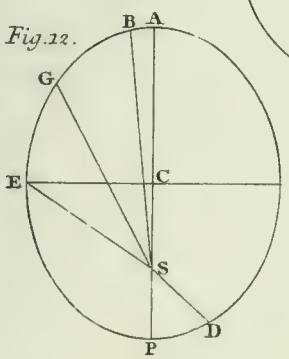

ANOMALY

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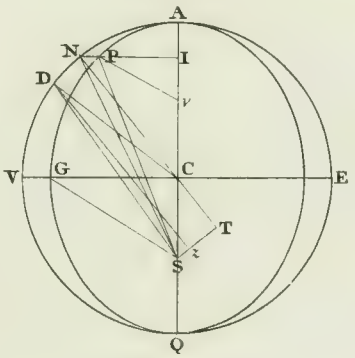
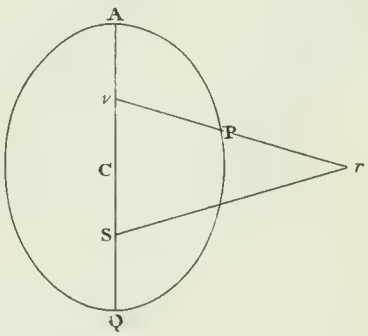
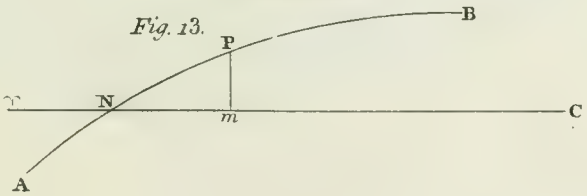


Fig. 10.



ARGUMENT

Fig. 13.



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ASTRONOMY.

GENERAL VIEW OF THE SOLAR SYSTEM.

Fig. 9.

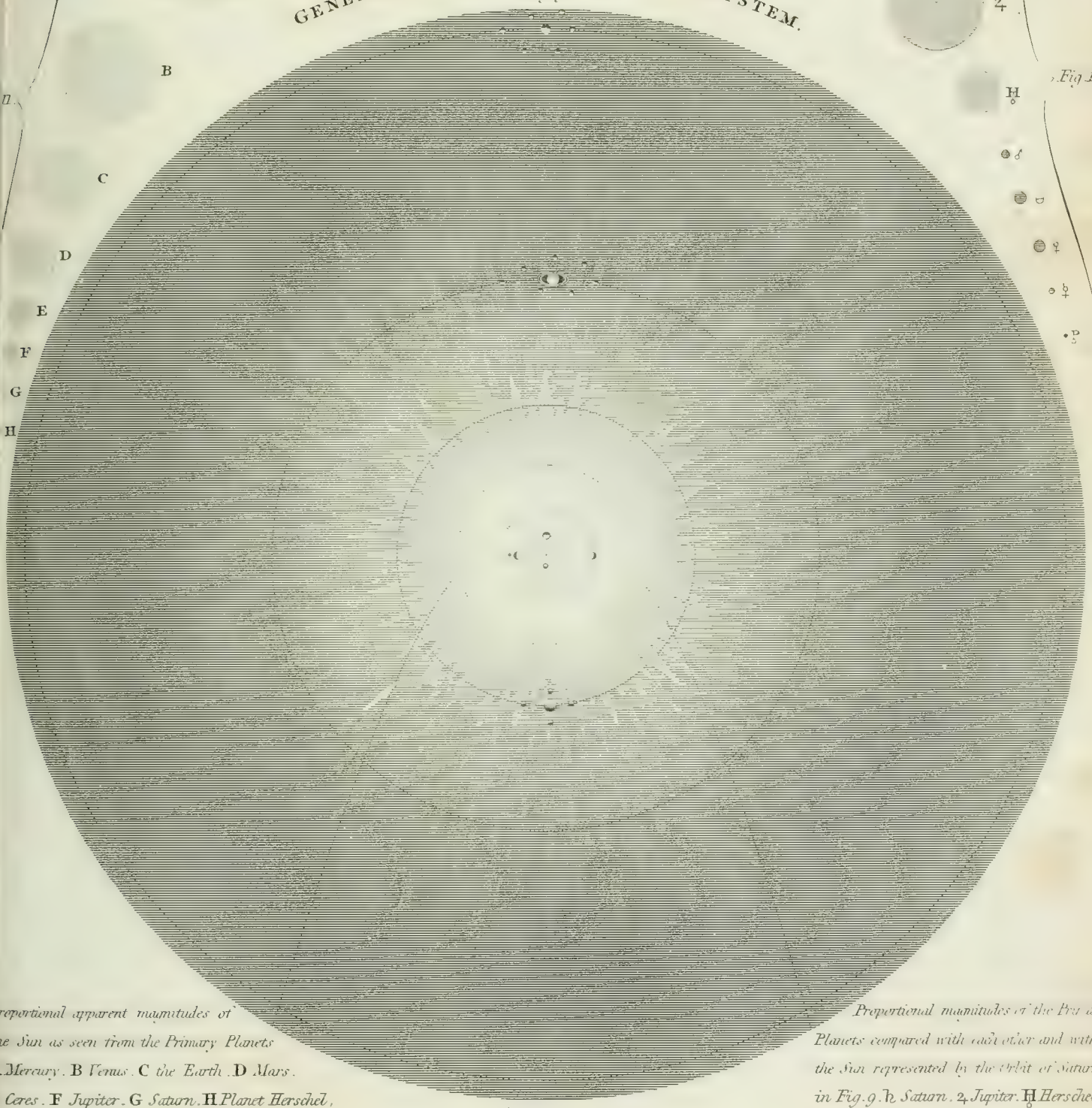

Fig. 10.

Proportional apparent magnitudes of the Sun as seen from the Primary Planets
A *Mercury*. B *Venus*. C *the Earth*. D *Mars*. E *Ceres*. F *Jupiter*. G *Saturn*. H *Planet Herschel, or Georgium Sidus.*

Proportional magnitudes of the Primary Planets compared with each other and with the Sun represented by the orbit of Saturn in Fig. 9. ♄ *Saturn*. ♃ *Jupiter*. ♅ *Herschel*. ♂ *Mars*. ☉ *the Earth*. ♀ *Venus* ☿ *Mercury*. ⚳ *Ceres or Piazzi*.

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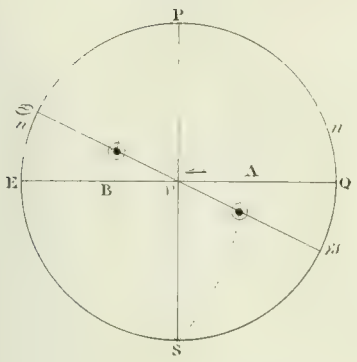
ASCENSION. &c

Fig. 15.



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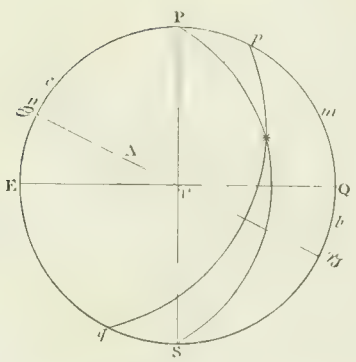
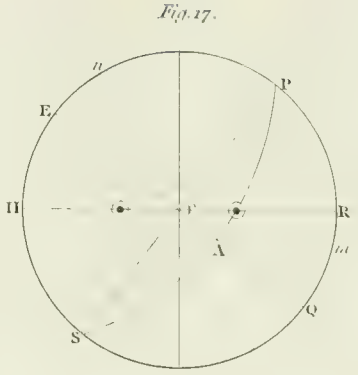
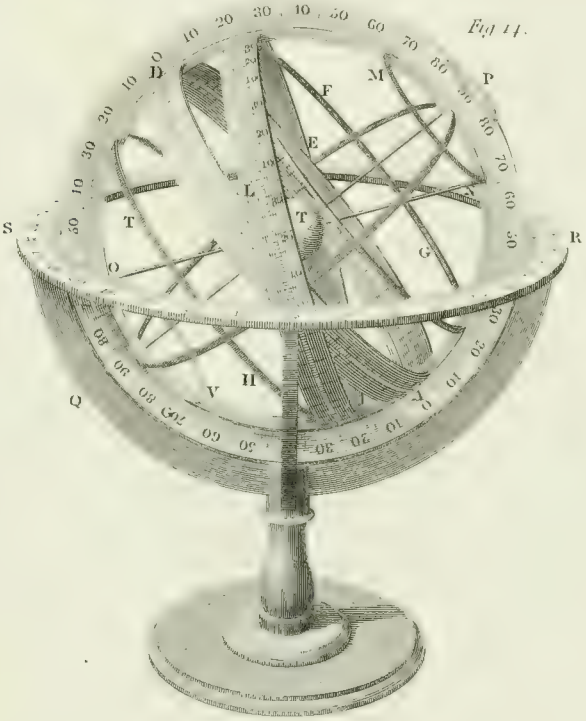


Fig. 17.



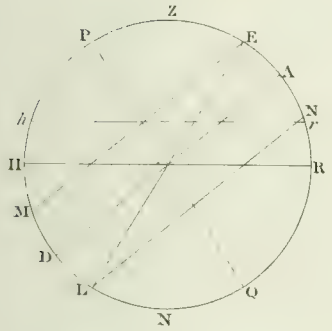
Armillary Sphere.

Fig. 14.



AXIS.

Fig. 18.



AXIS.

Fig. 19

Chronology.

Fig. 22.

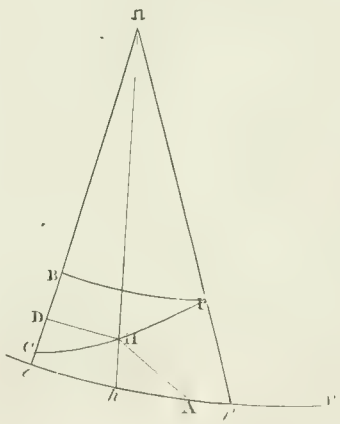
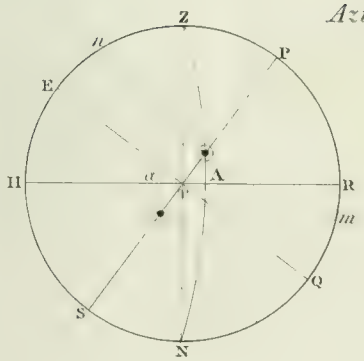
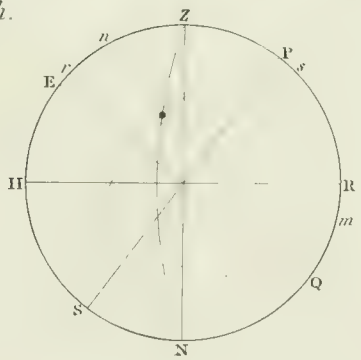


Fig. 20.



Azimuth.

Fig. 21.



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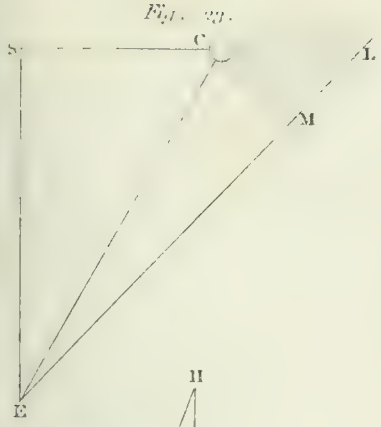
COMET

Fig. 23.



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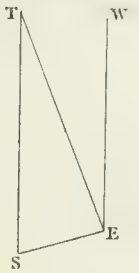

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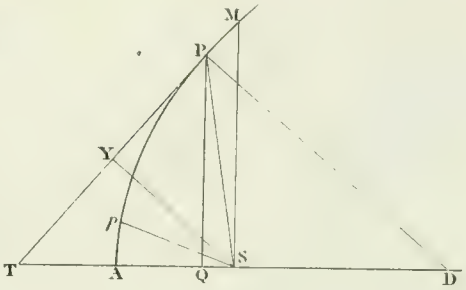

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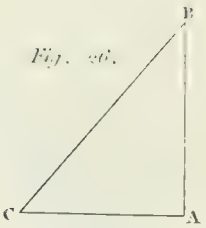

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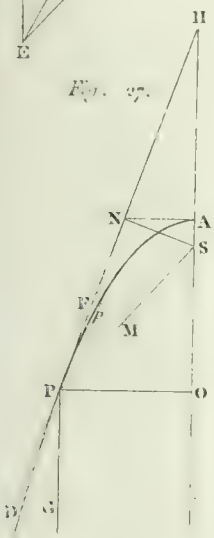

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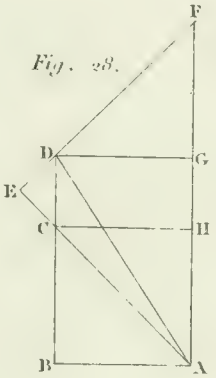

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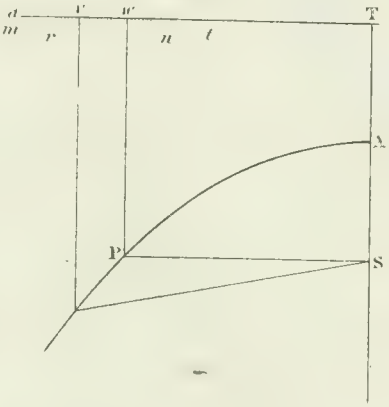

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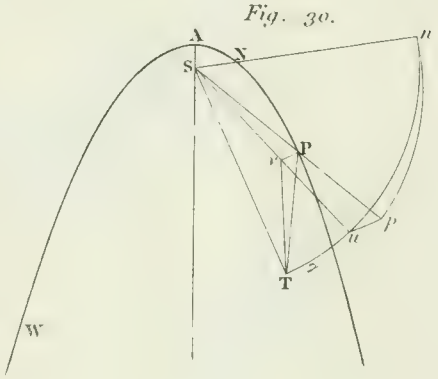

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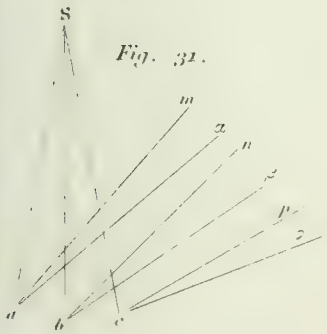

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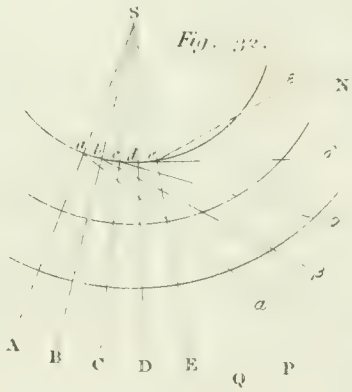

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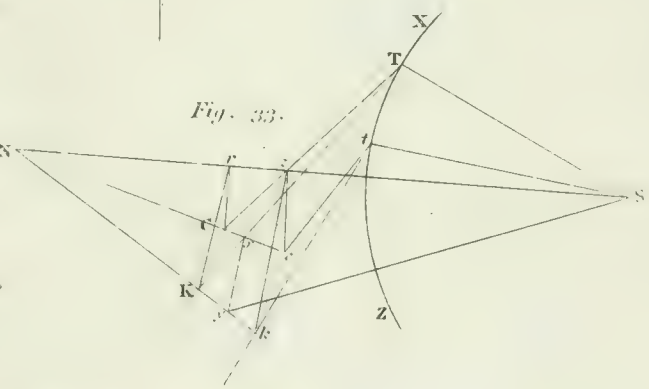

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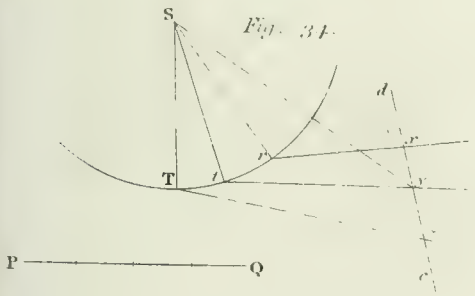

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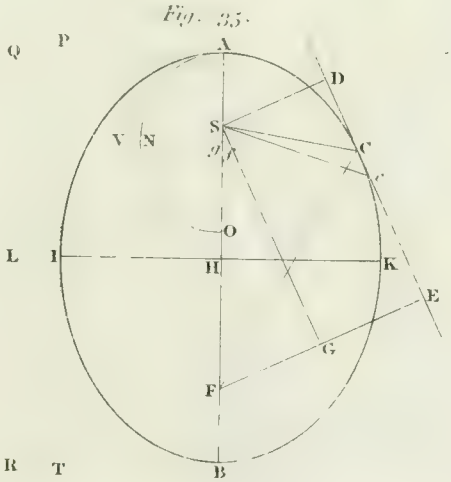

Fig. 36.

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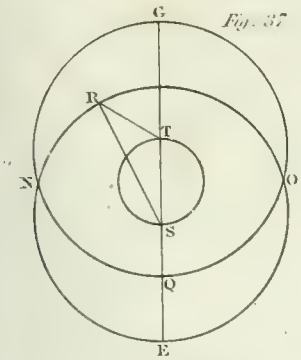
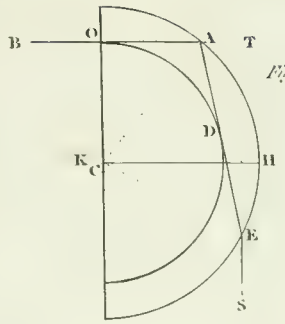
COMMUTATION

Fig. 37



CREPUSCULUM

Fig. 38.



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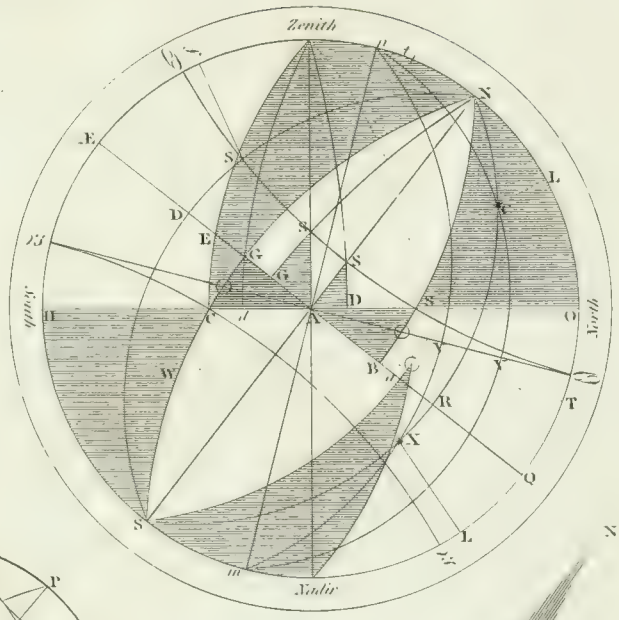

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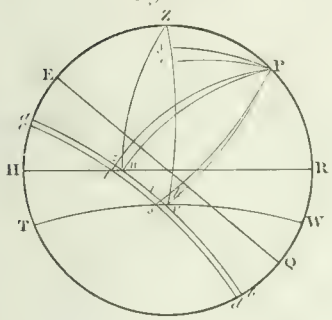

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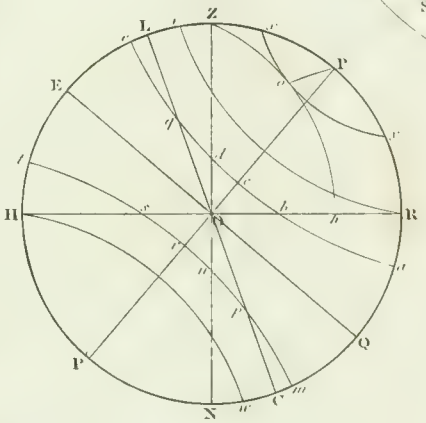

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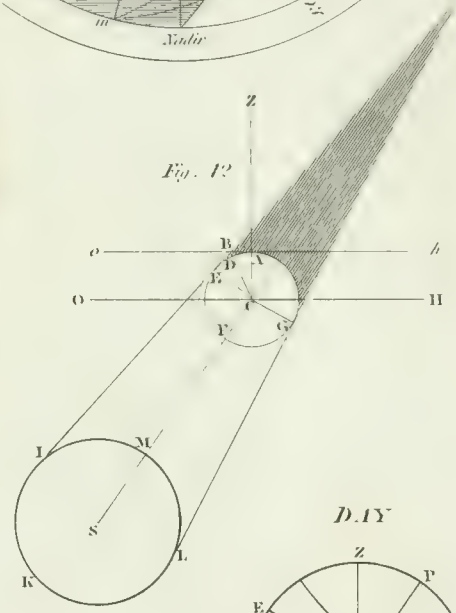
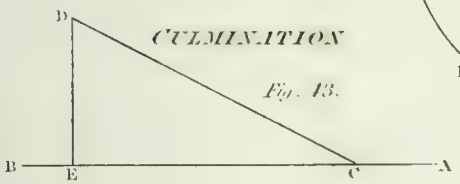


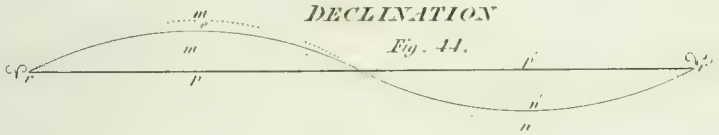
CULMINATION

Fig. 43.



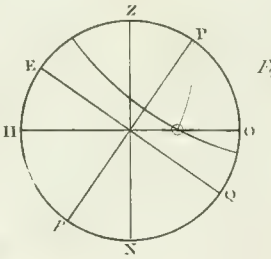
DECLINATION

Fig. 44.



DAY

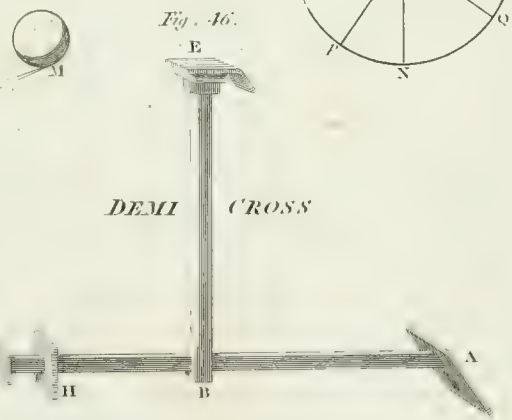
Fig. 45.



Z

Z'

Fig. 46.



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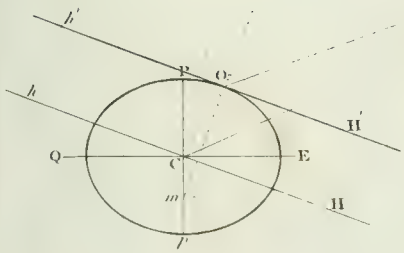

DEMI CROSS

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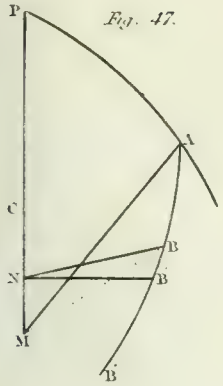
DEGREE.

Fig. 47.



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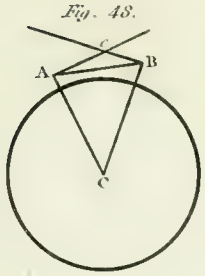

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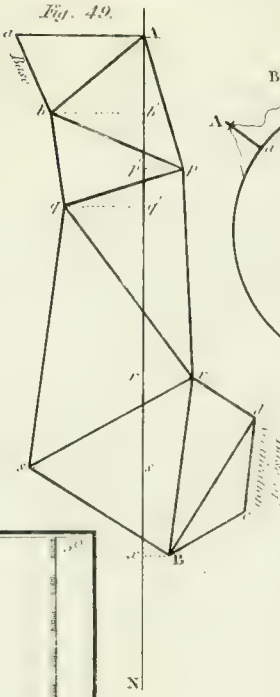

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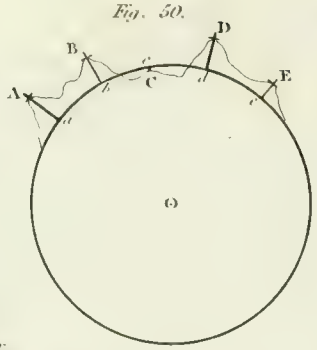

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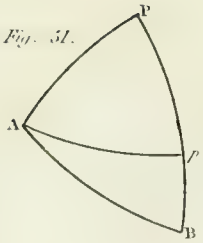


Fig. 52.

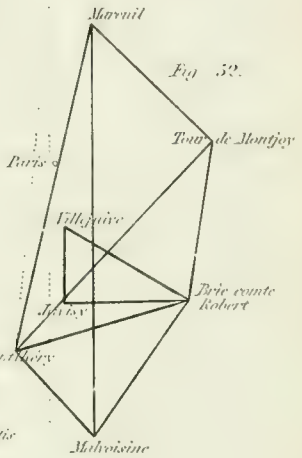
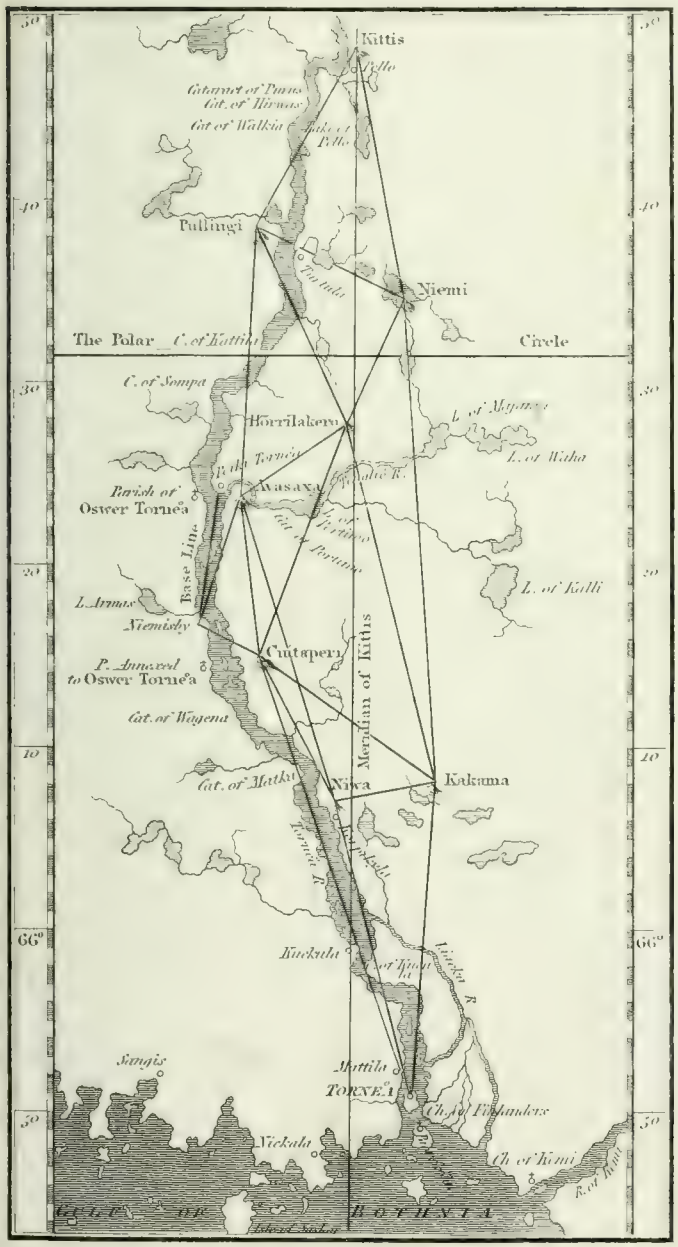
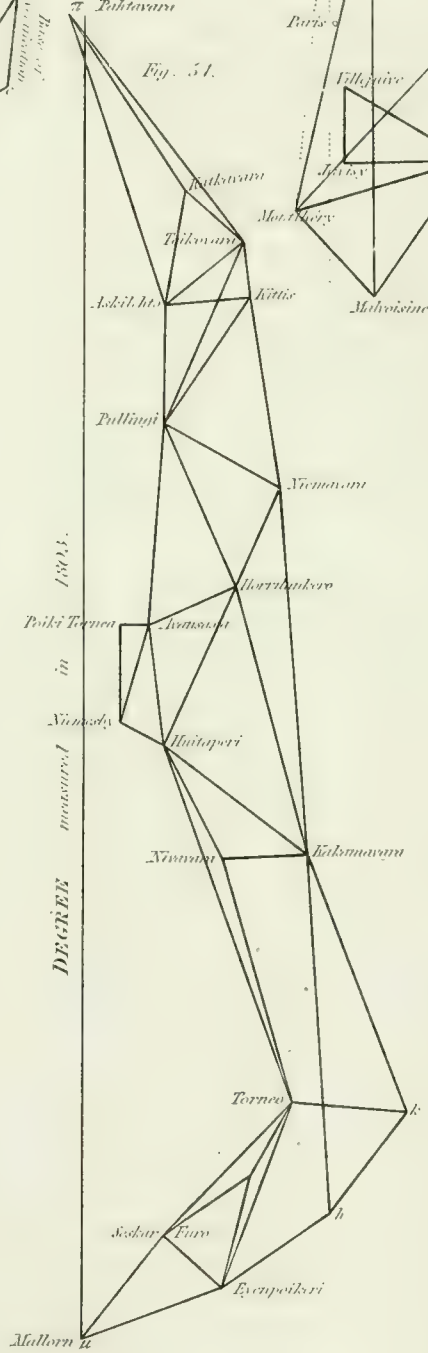


Fig. 53.

DEGREE measured in 1736.



DEGREE measured in 1801.



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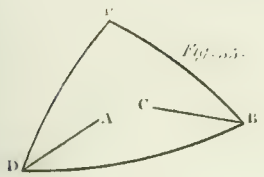
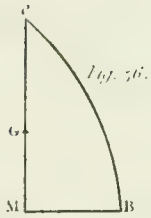
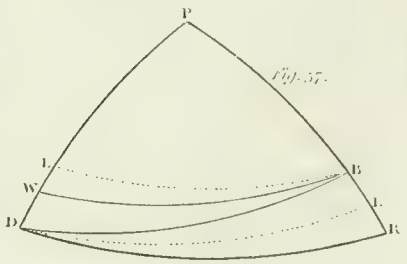
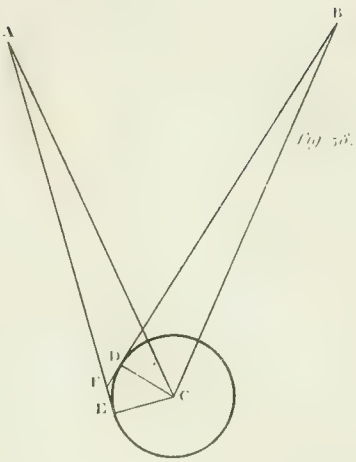
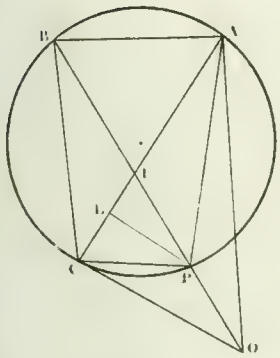
DEGREE.

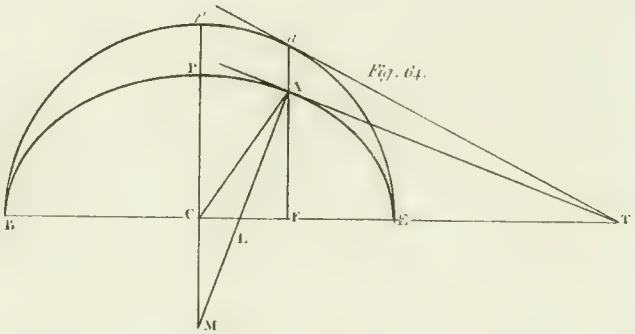


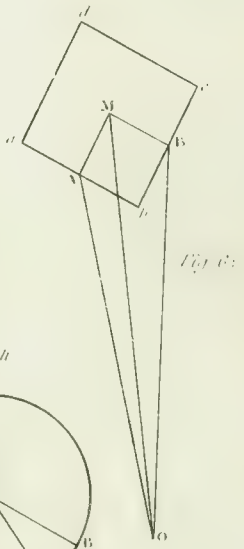


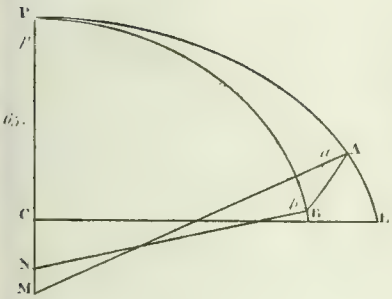


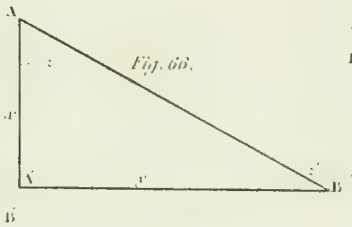


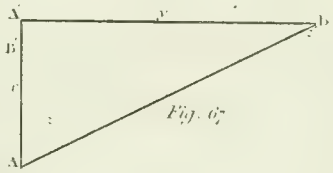


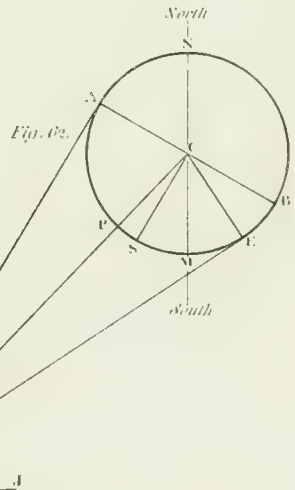


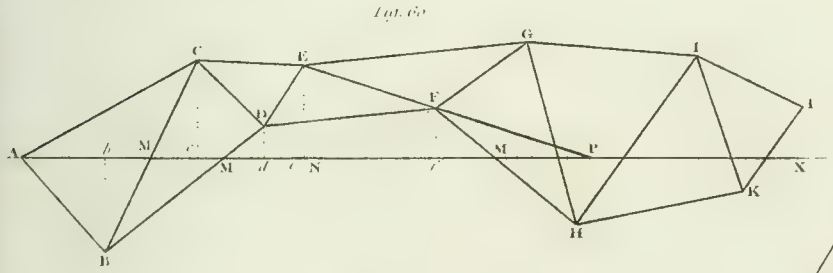


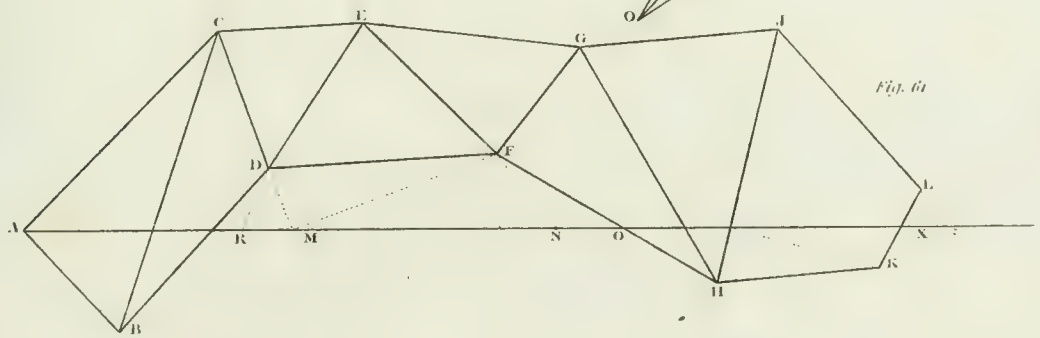












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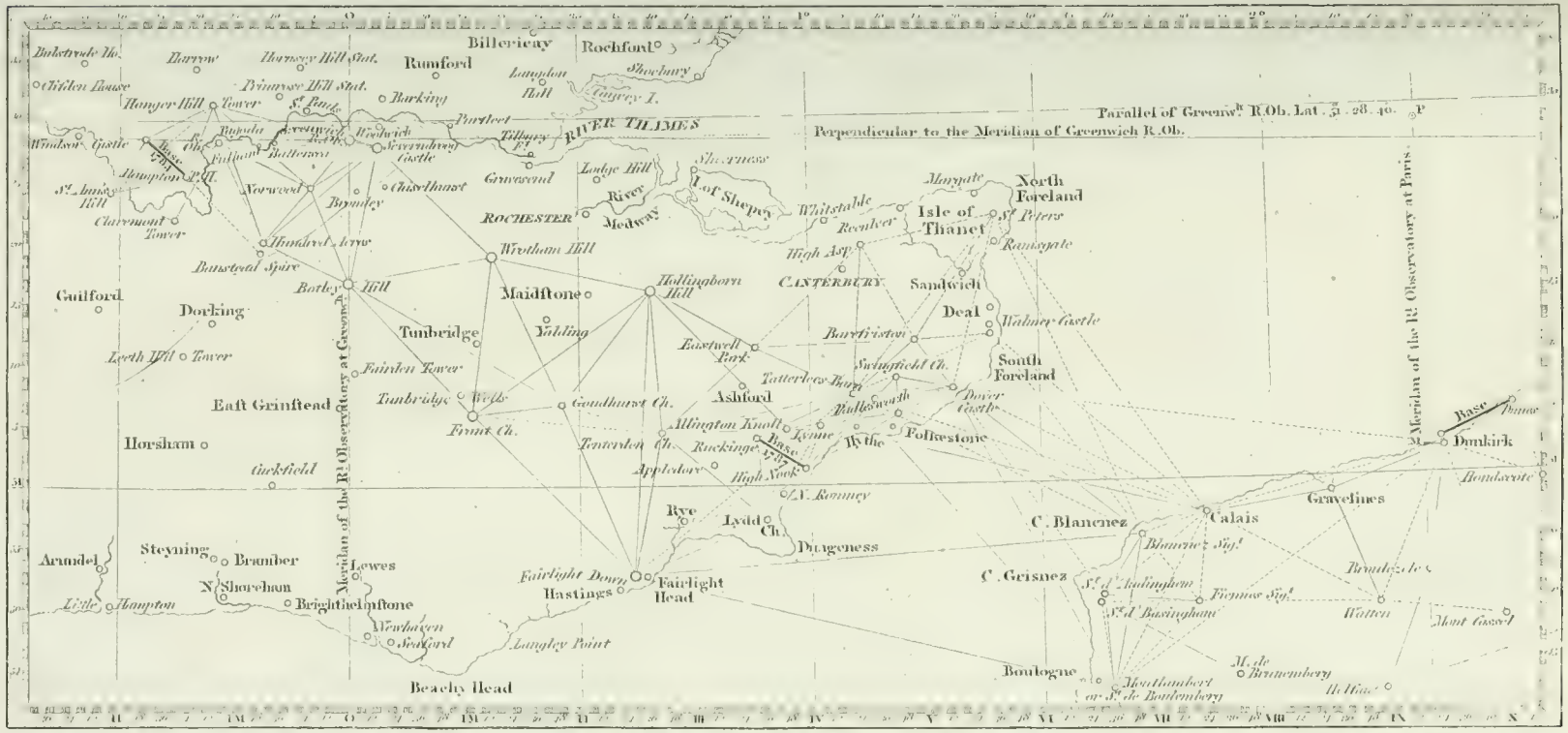

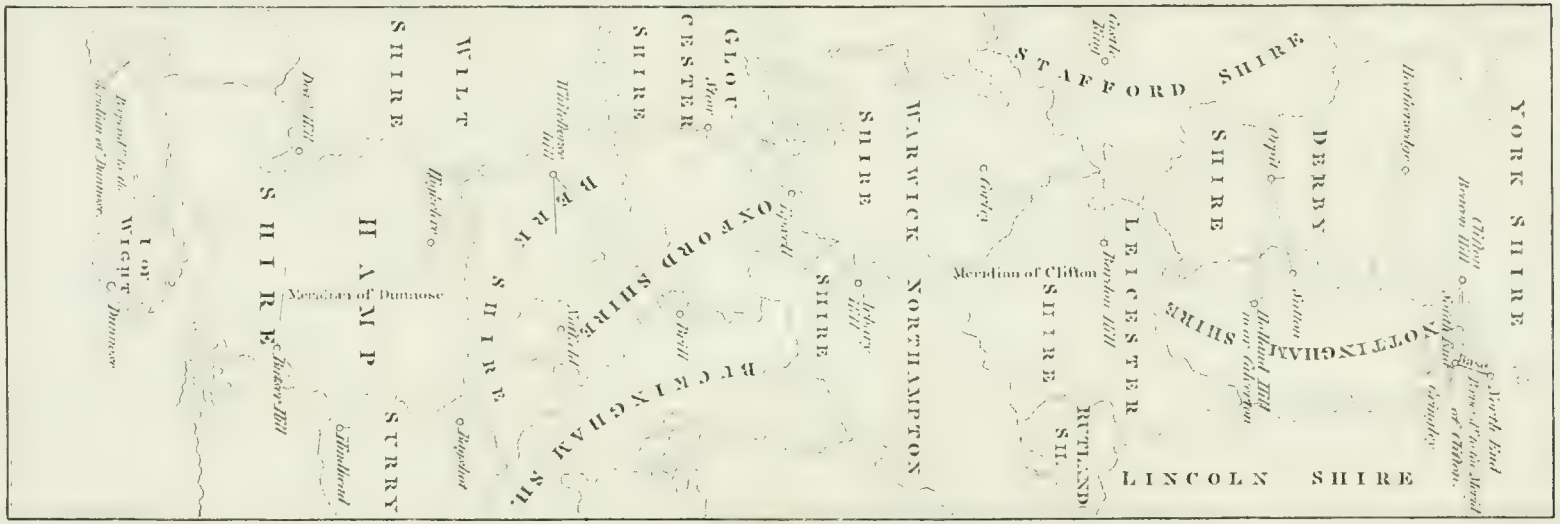

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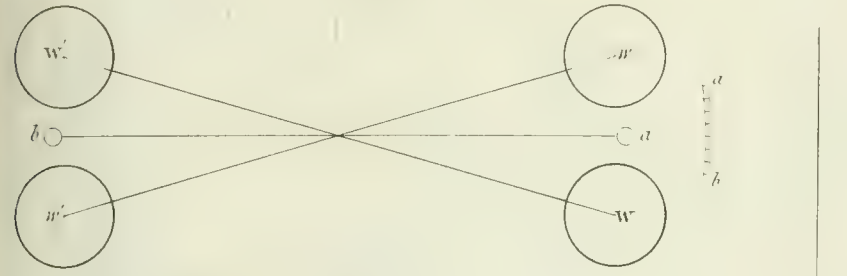
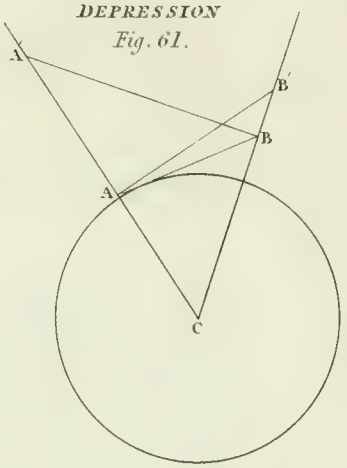
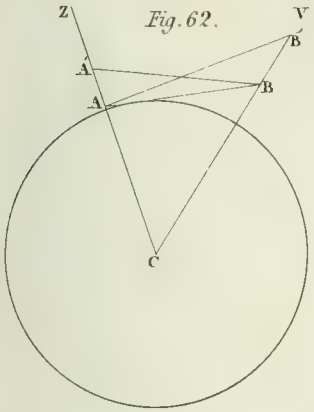
DENSITY
Fig. 60.

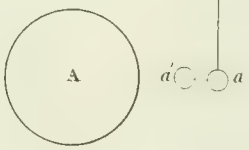


DEPRESSION
Fig. 61.

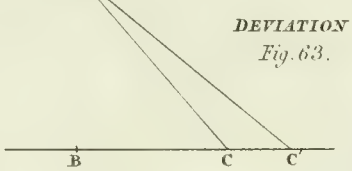


DEPRESSION
Fig. 62.





DEVIATION
Fig. 63.



DIAMETER
Fig. 64.

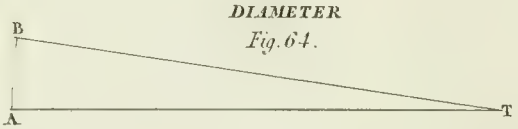


Fig. 65

DIAMETER

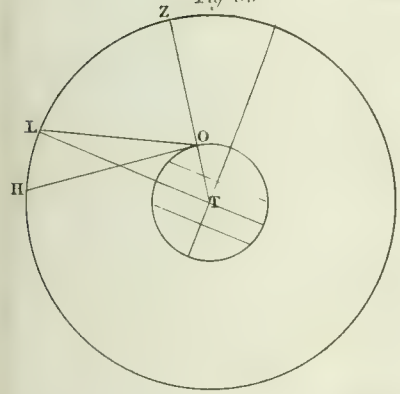
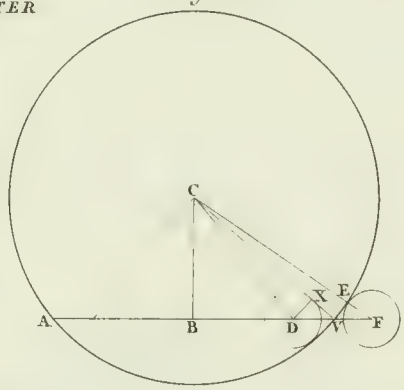
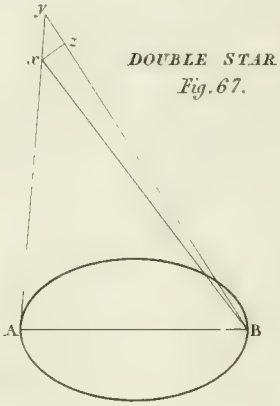


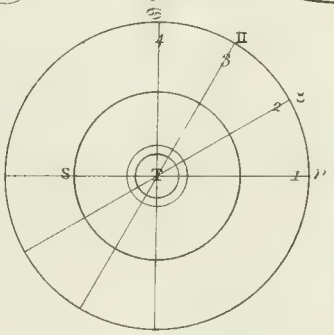
Fig. 66.





DOUBLE STAR
Fig. 67.

Fig. 69.



DICHOTOMY
* Fig. 67.

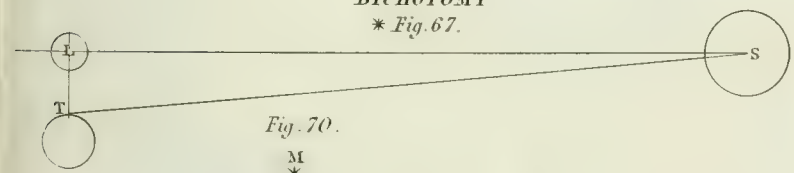
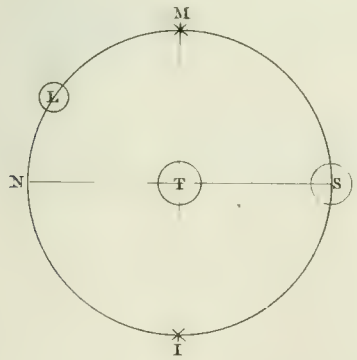
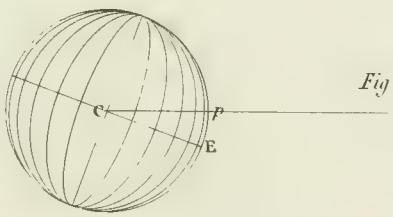


Fig. 70.



EARTH



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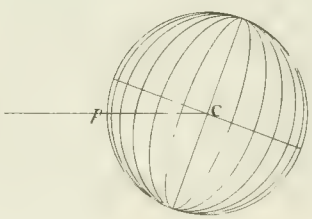

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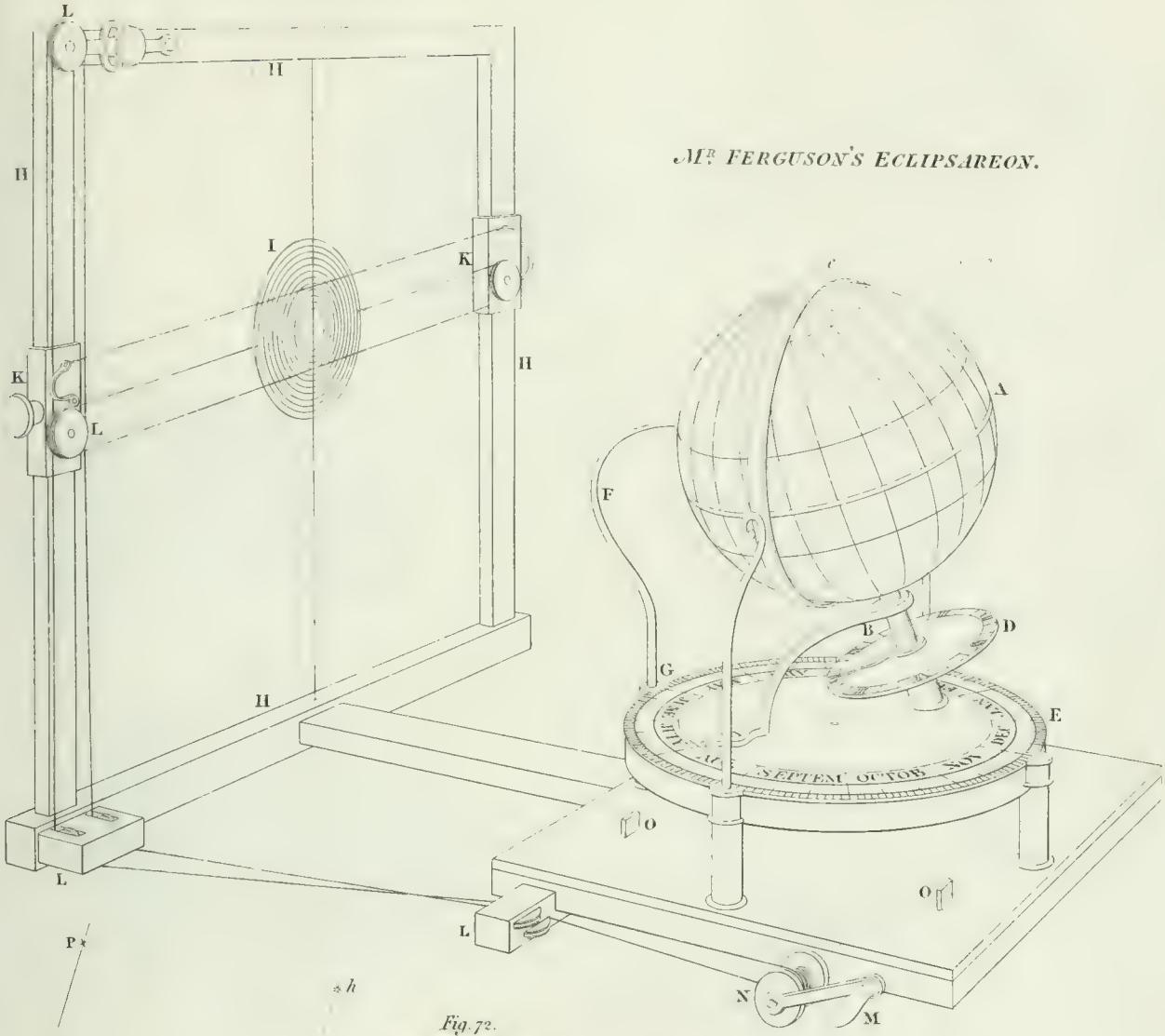

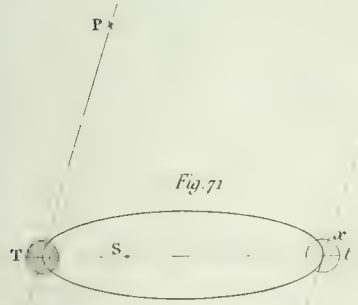

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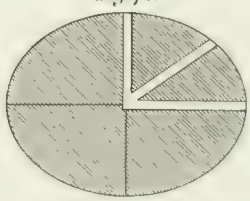

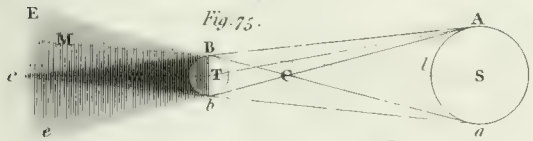

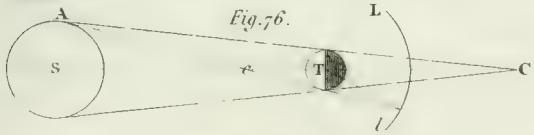

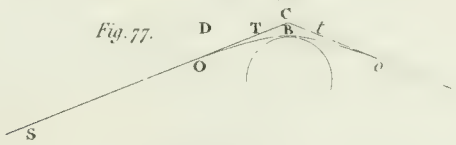

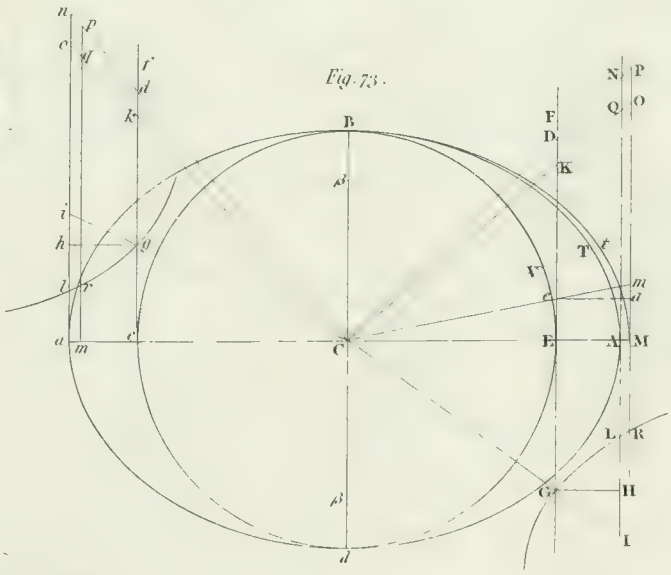

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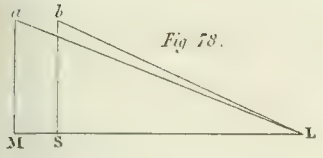
Fig. 78.



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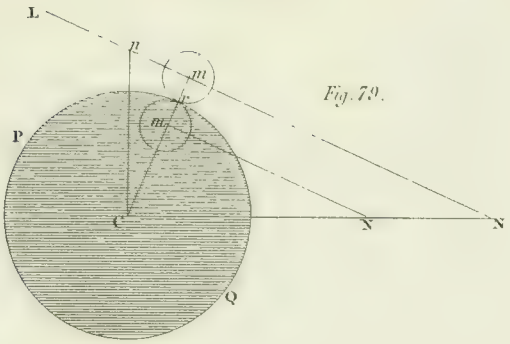

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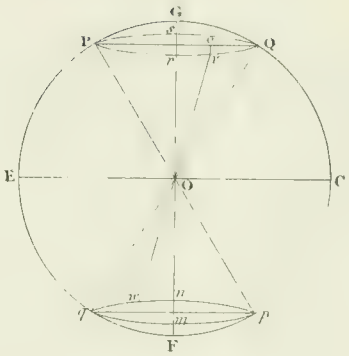

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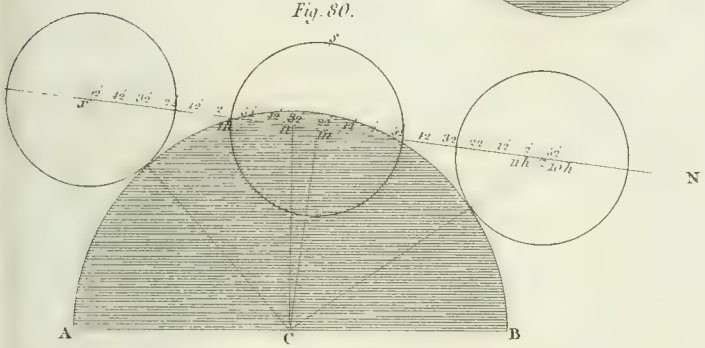

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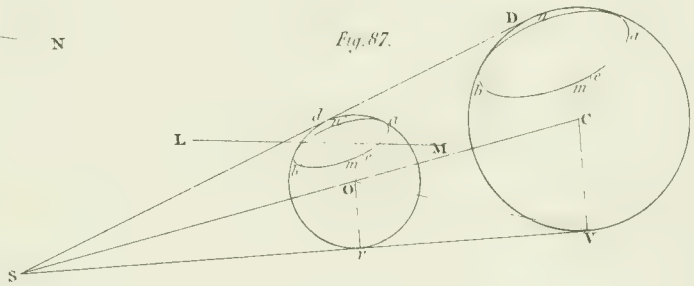

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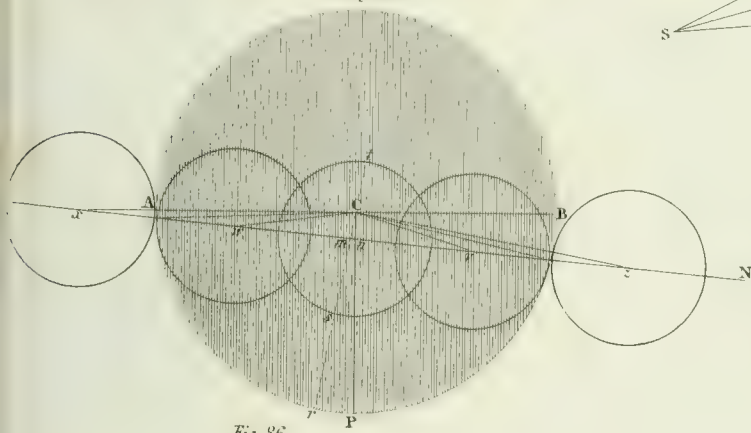

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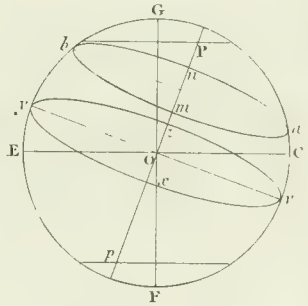

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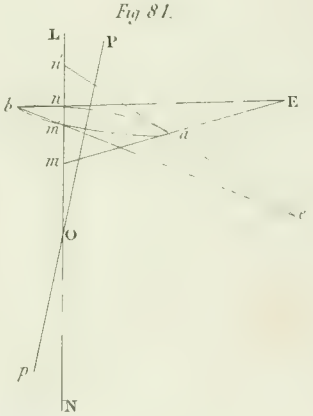

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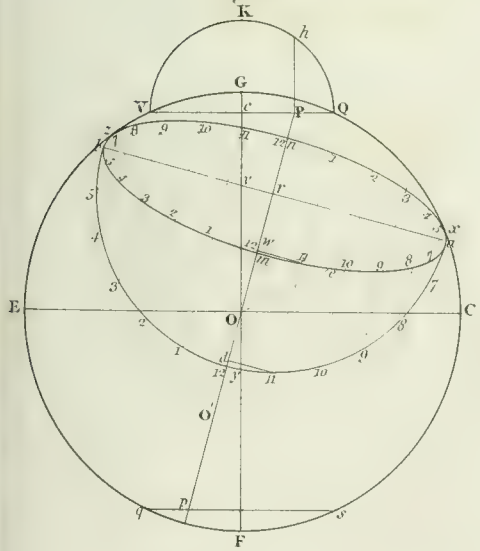
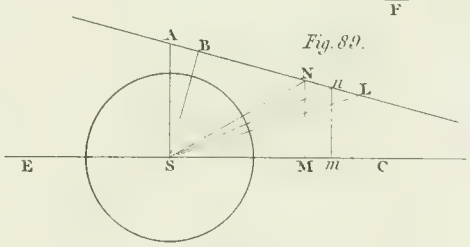


Fig. 89.



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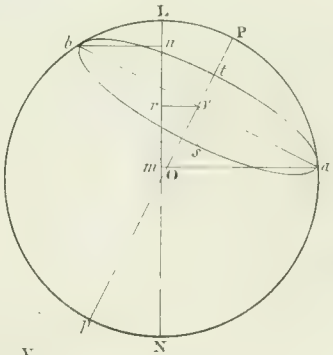

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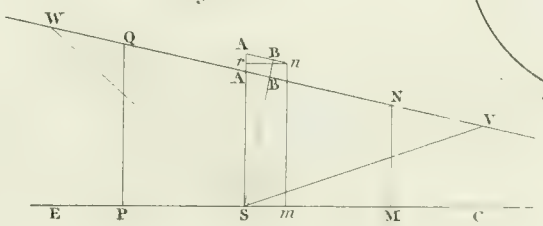

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Fig. 91 & 92.

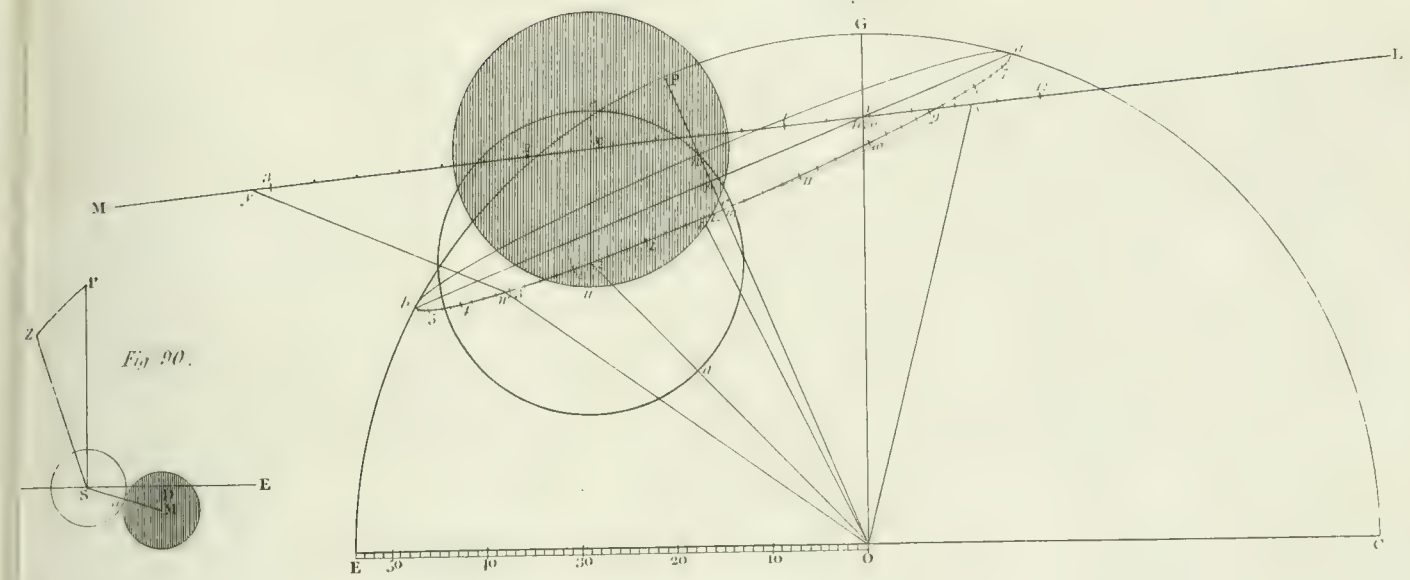


Fig. 90.

Fig. 93.

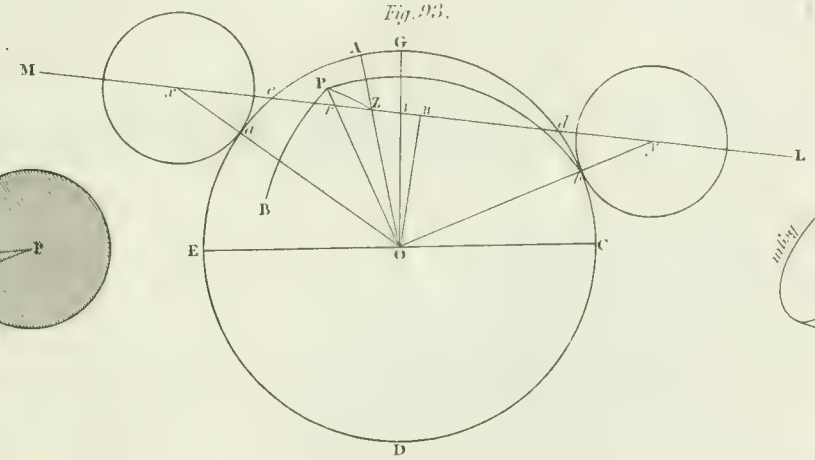
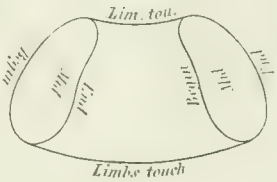


Fig. 98



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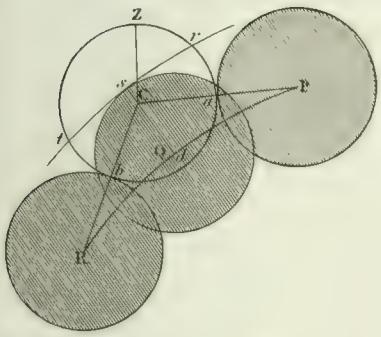

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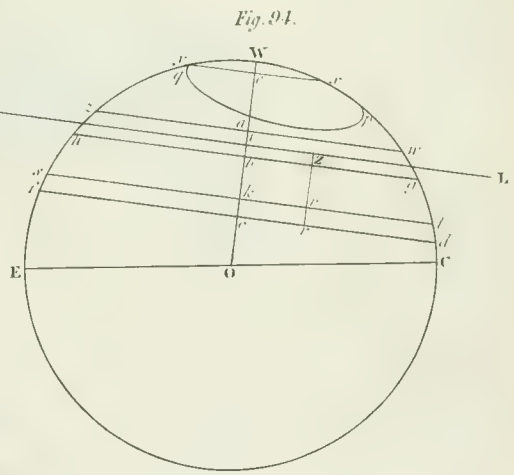

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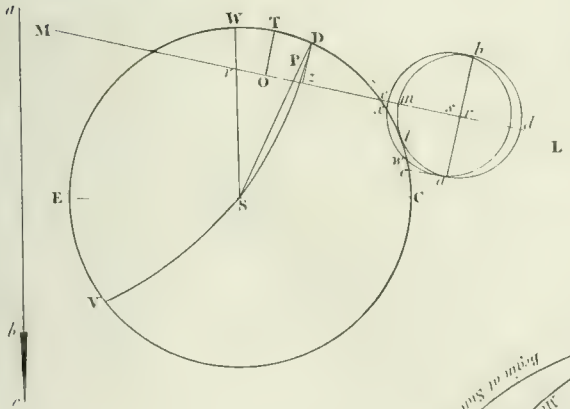

Fig. 97.

Fig. 96.

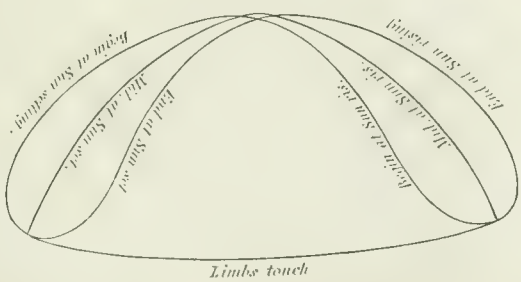

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Fig. 99.
ECLIPSE

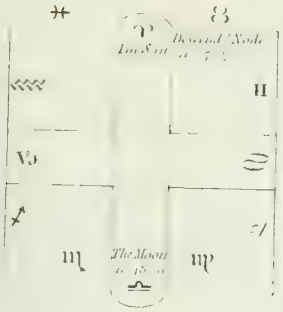


Fig. 101.
ECLIPTIC.

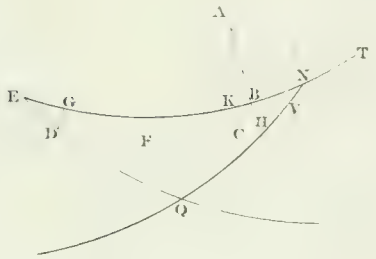
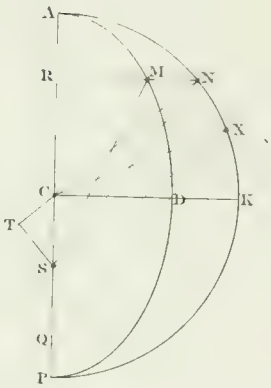


Fig. 103.
ELLIPTIC



EPICYCLE

Fig. 105.

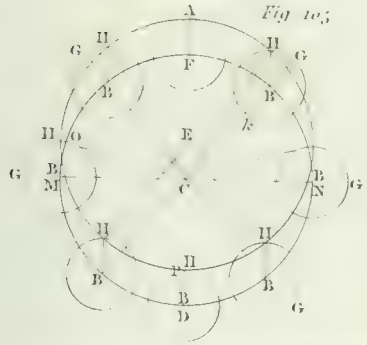
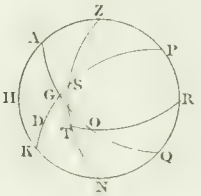


Fig. 102.
ELEVATION



EQUAL ALTITUDE

Fig. 106.

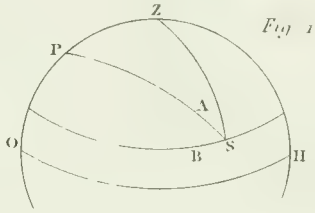


Fig. 100.
ECLIPSE

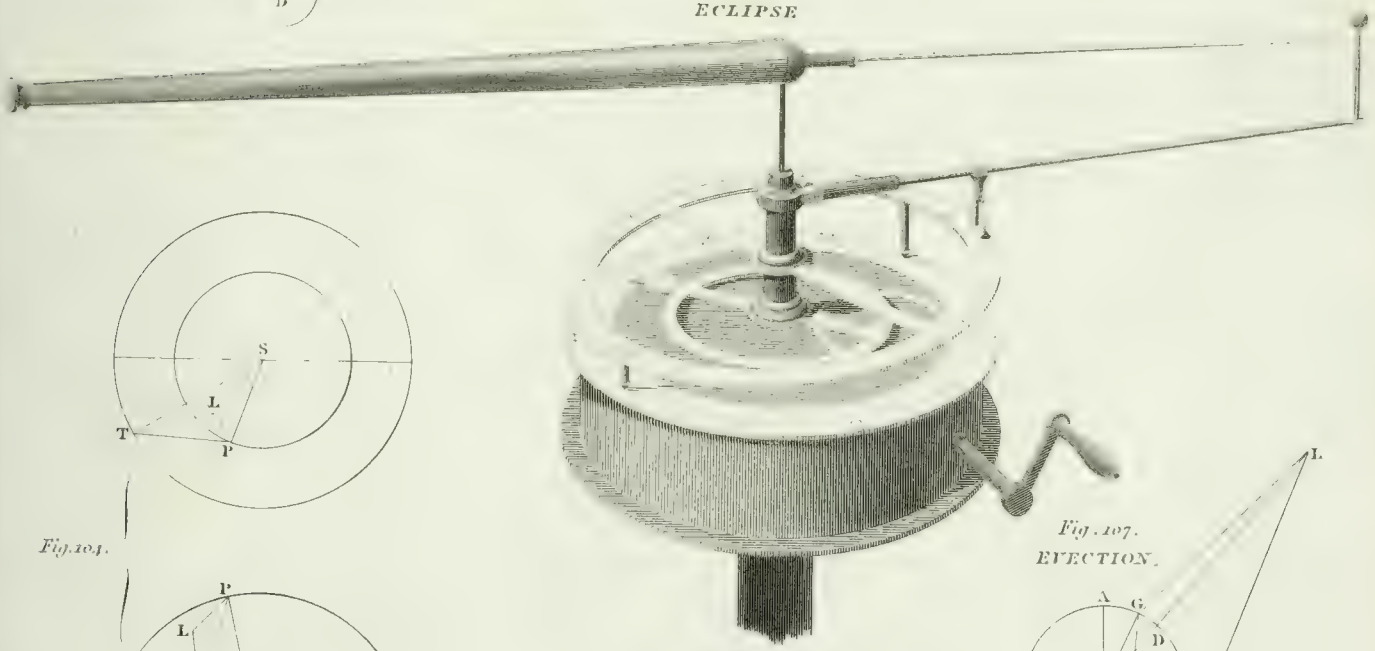


Fig. 104.

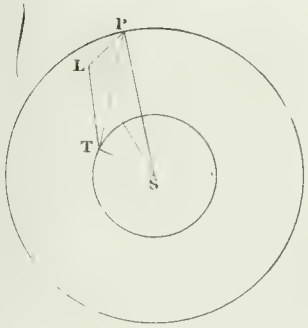


Fig. 107.
EVECTION.

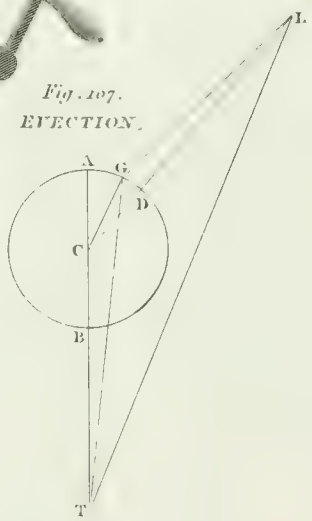
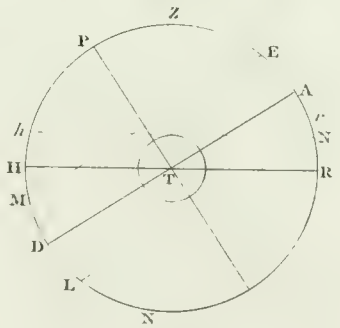


Fig. 109.
EQUATOR



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ECLIPTIC.

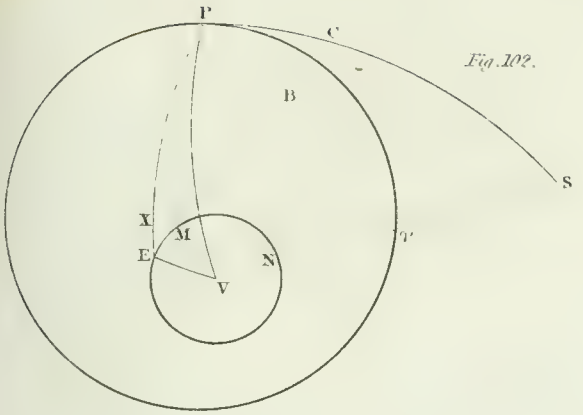


Fig. 102.

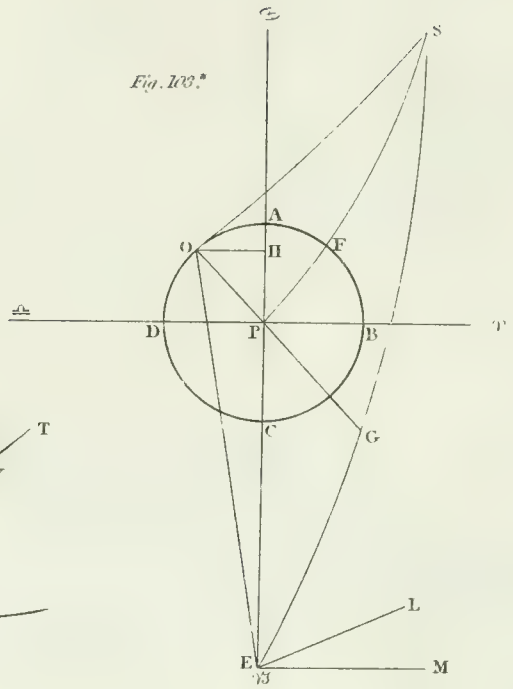


Fig. 103.*

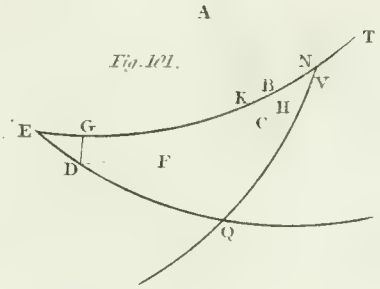


Fig. 101.

EQUINOX

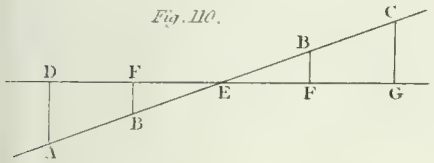


Fig. 110.

EQUATION of CENTER.

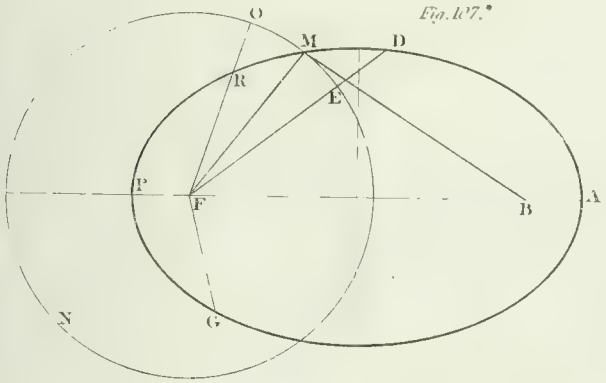


Fig. 107.*

EQUATION of TIME.

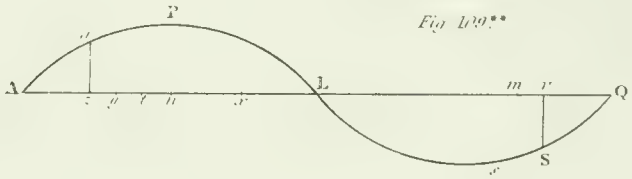
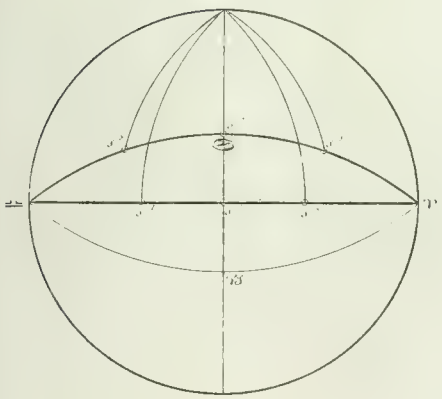


Fig. 109.**

N° 1.



EQUATION of TIME

Fig. 108.

N° 2.

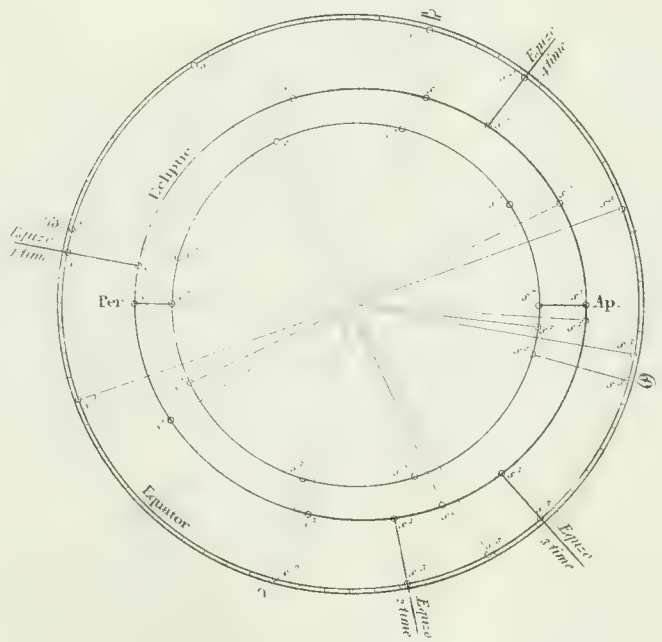


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Fig. 112.

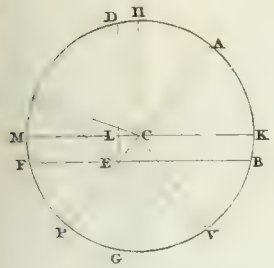
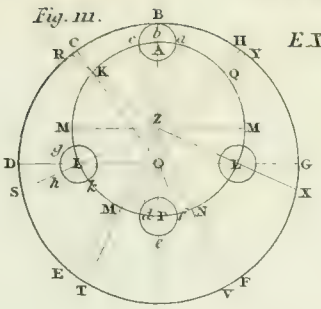


Fig. 111.



EXCENTRIC.

Fig. 113.

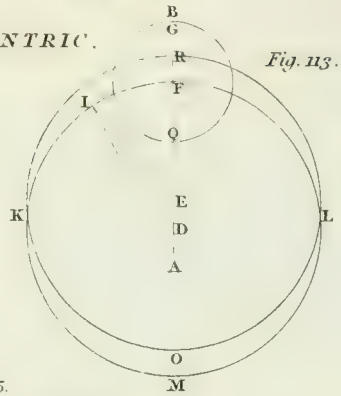


Fig. 110.

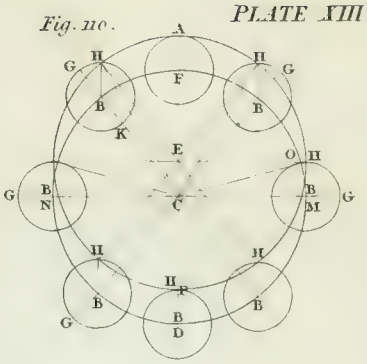


Fig. 5.

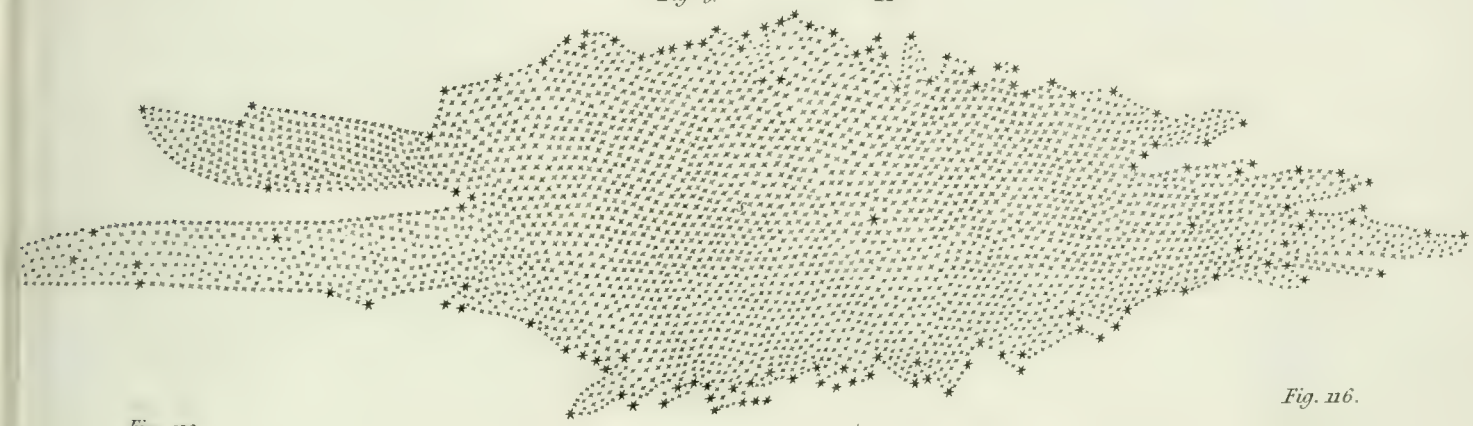


Fig. 116.

GEOCENTRIC.

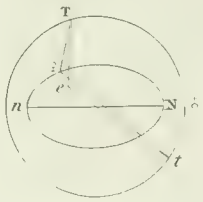
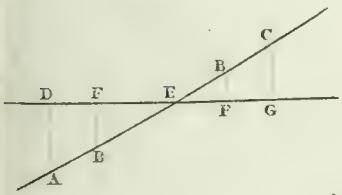
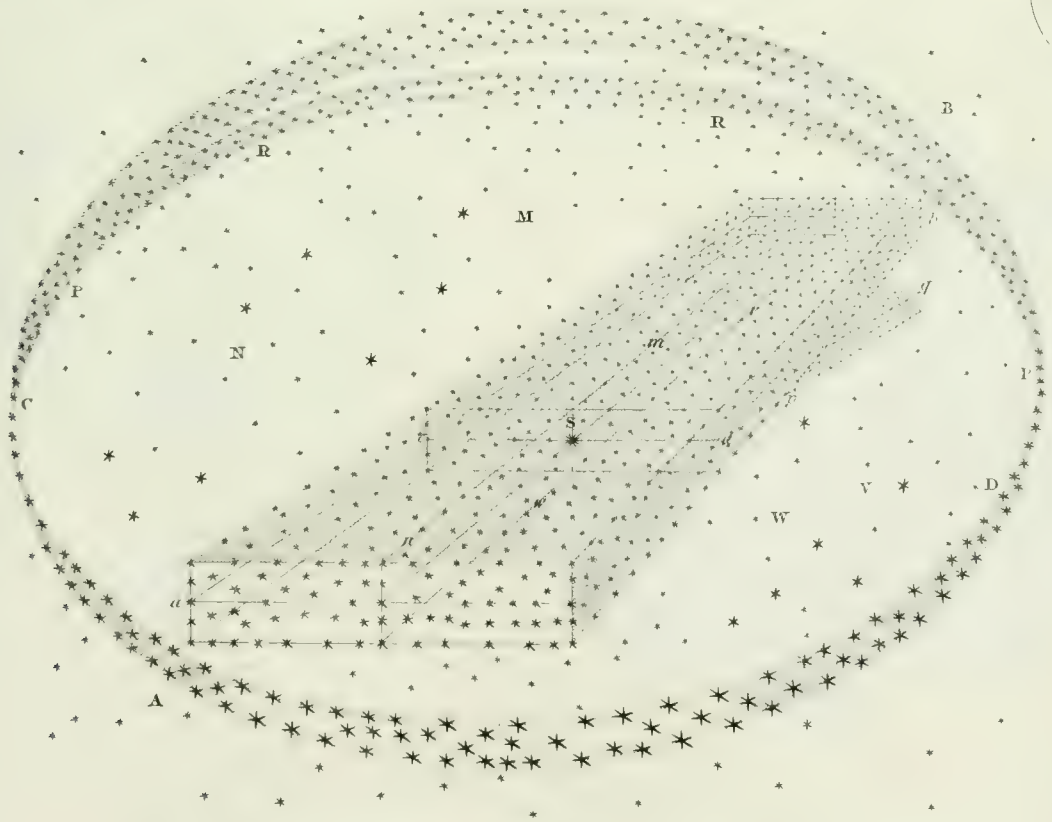


Fig. 110.



GALAXY

Fig. 114.



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GLOBE.

Fig. 117.

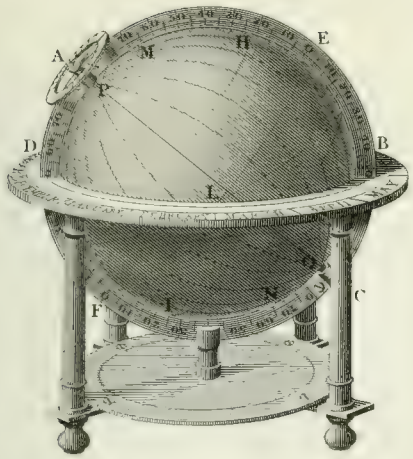


Fig. 118.

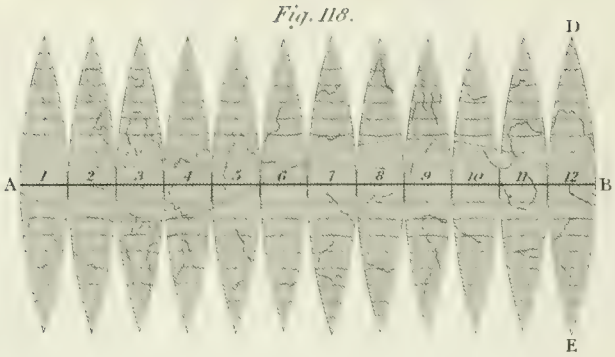


Fig. 119 & 121.

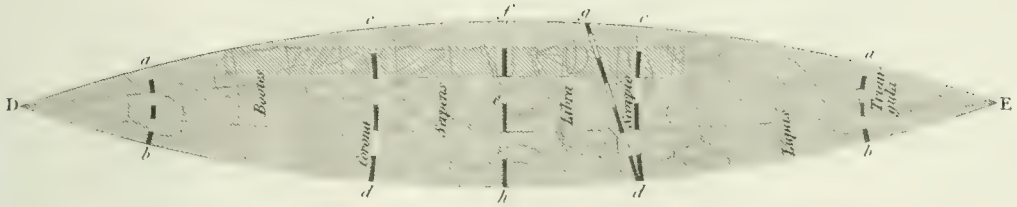


Fig. 120.

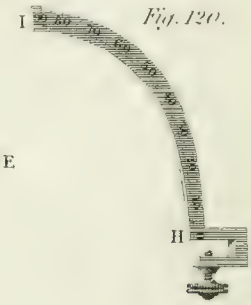
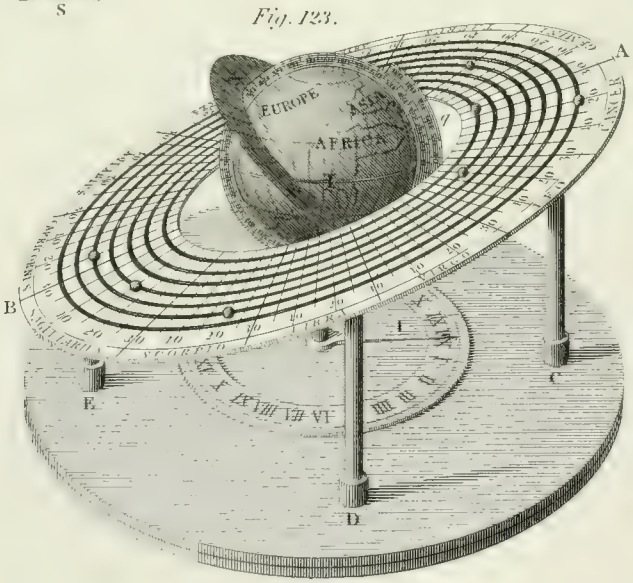


Fig. 122.

Ferguson's Celestial Globe.

Ferguson's Planetary Globe.

Fig. 123.



Drawn by J. Lucas

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Fig. 124.

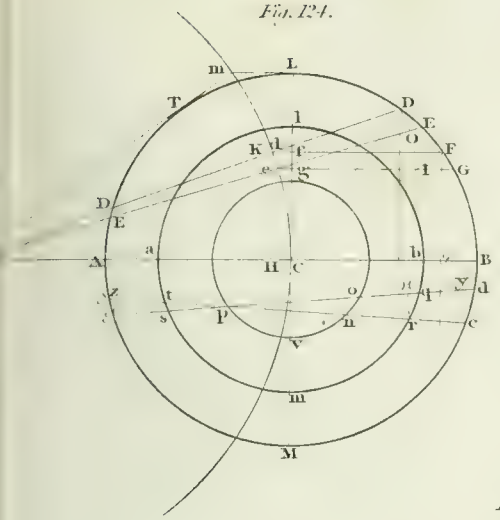


Fig. 125.

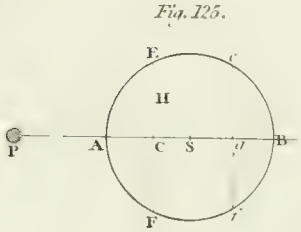


Fig. 127.

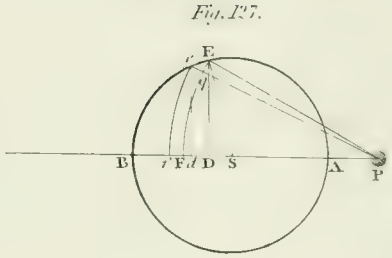


Fig. 126.

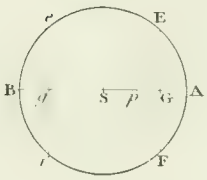


Fig. 128.

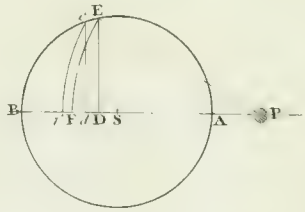
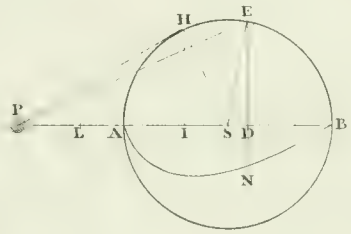


Fig. 130.



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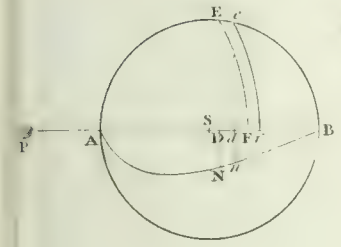
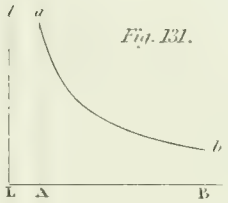


Fig. 131.



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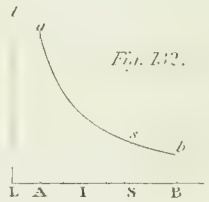
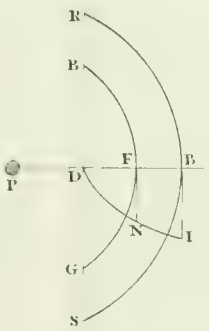


Fig. 134.



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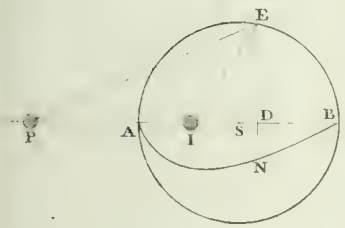
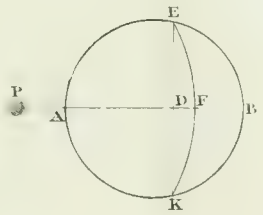


Fig. 135.



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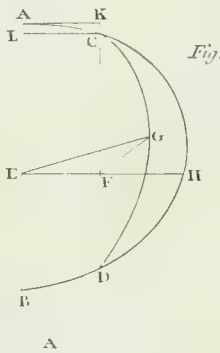

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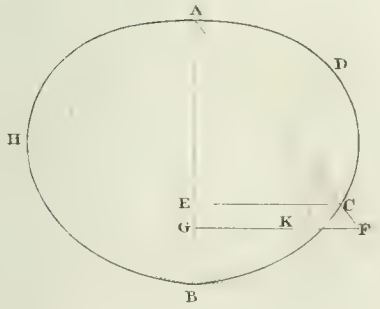

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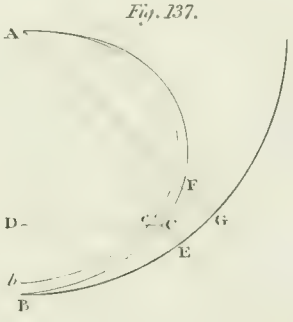
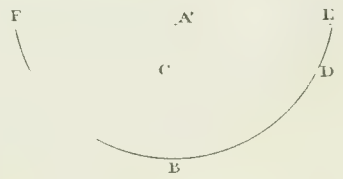


Fig. 137.



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HEAT.

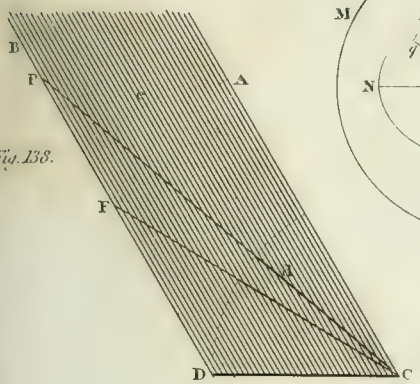

Fig. 138.

HELIOCENTRIC.
Latitude.

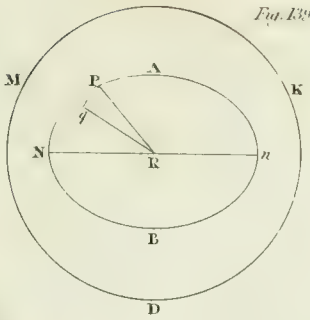

Fig. 139.

HEMISPHERE, HORIZON, TROPICS.

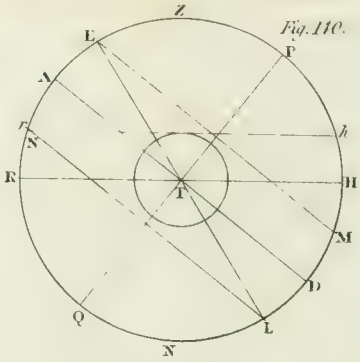

Fig. 140.

HORIZON.

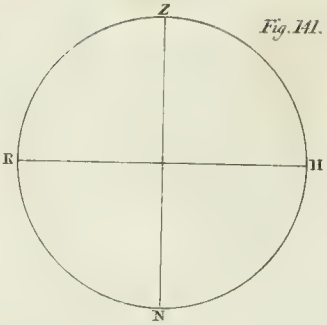

Fig. 141.

Fig. 143.

JUPITER.

Fig. 144.

HOUR.

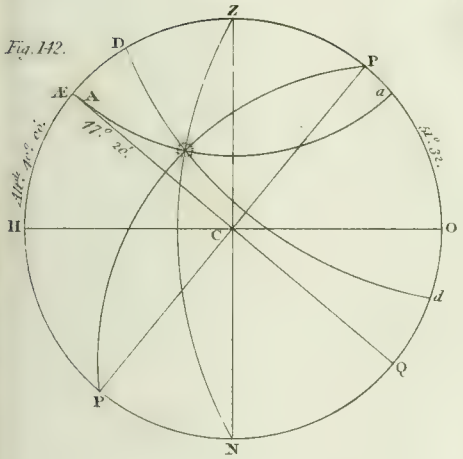

Fig. 142.

Fig. 145.

Fig. 146.

LATITUDE, REDUCTION.

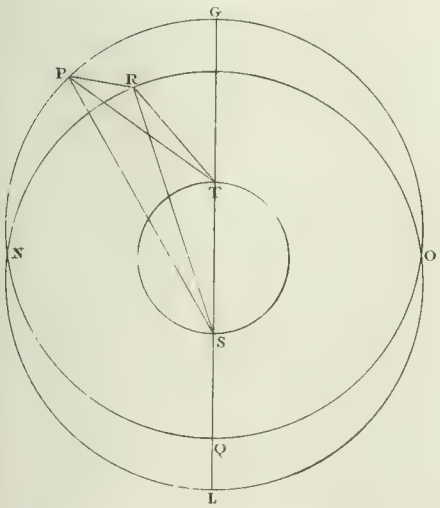

Fig. 148.

LATITUDE.

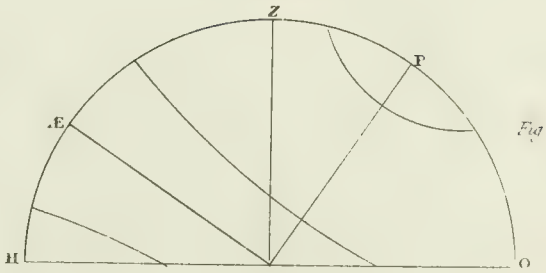

Fig. 147.

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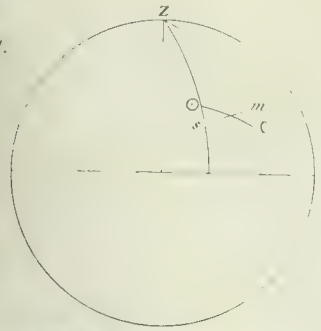
LONGITUDE.

Fig. 1.

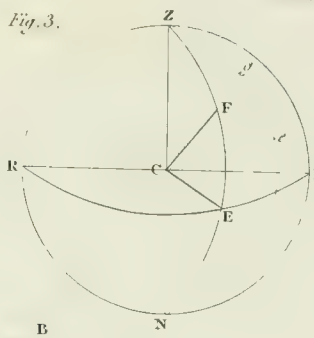


MARS.

Fig. 2.

MERIDIAN LINE.

Fig. 3.



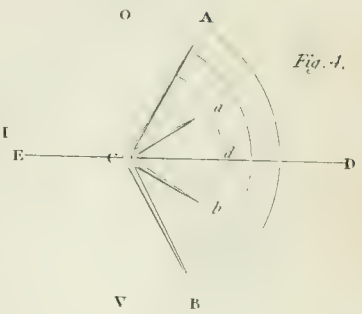


Fig. 4.

MOON

Fig. 5.

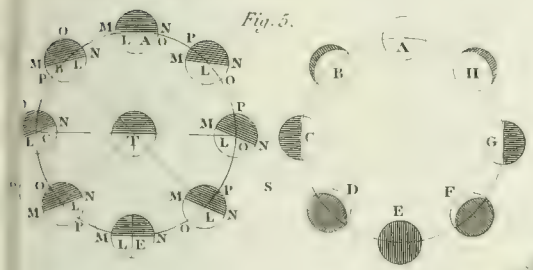
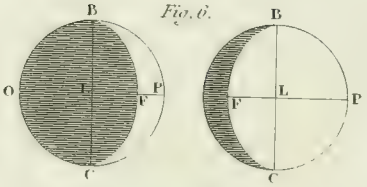


Fig. 6.



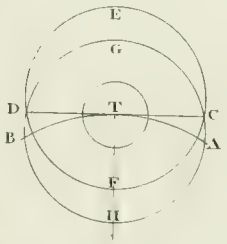
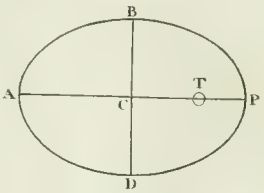


Fig. 7.

South

Fig. 16.

Fig. 8.



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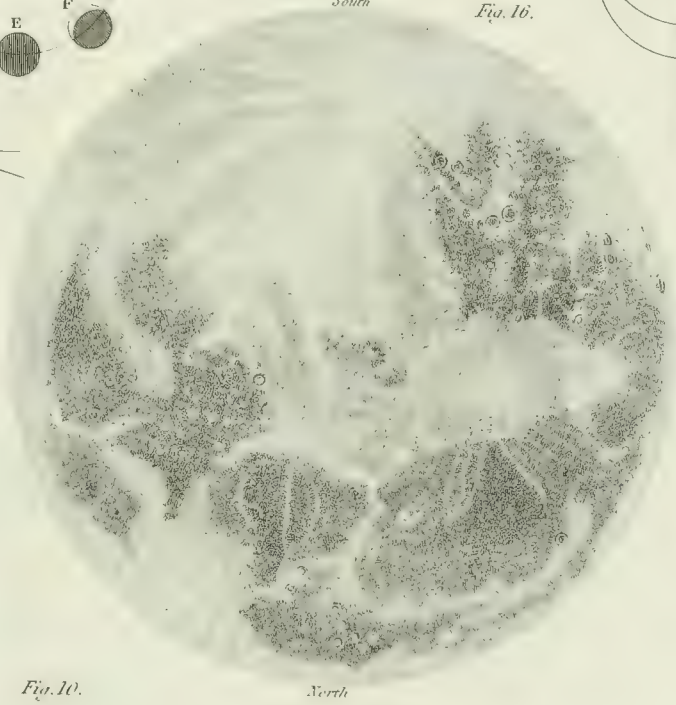

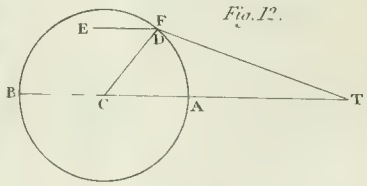

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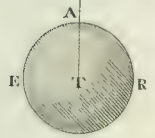
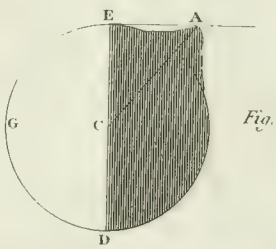


Fig. 10.

North



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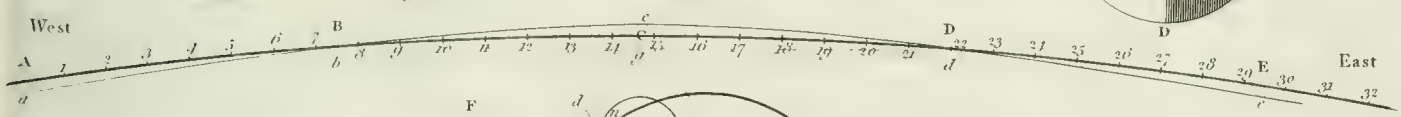


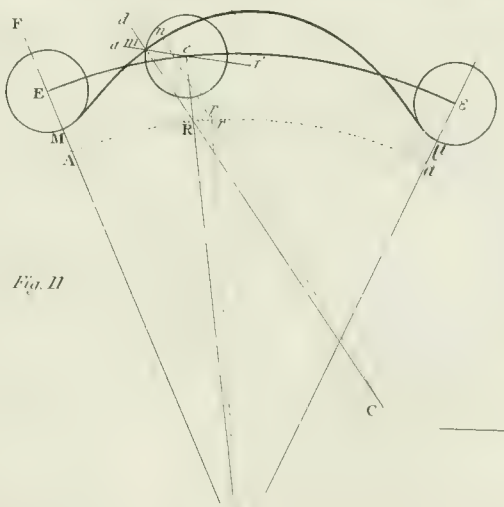
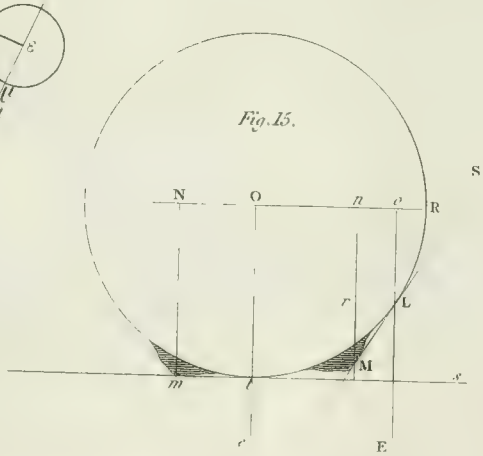


Fig. 13

Fig. 11

Fig. 15.



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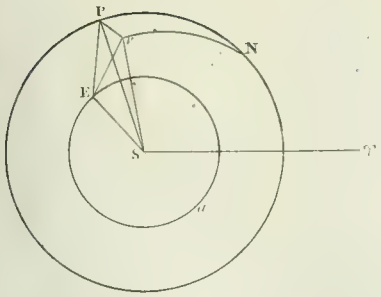

Fig. 1.

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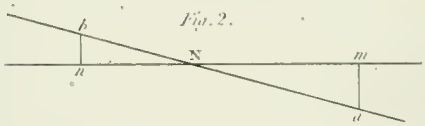
Fig. 2.



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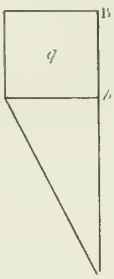

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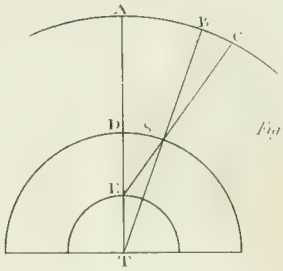
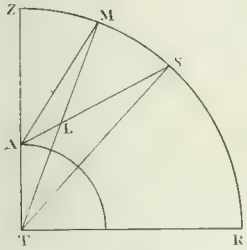


Fig. 4.

Fig. 5.



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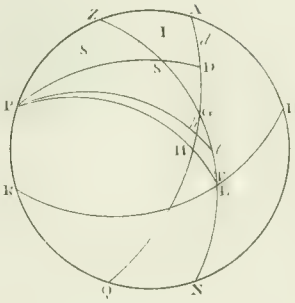

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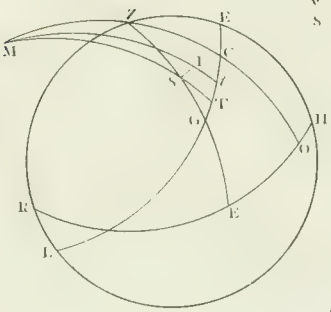

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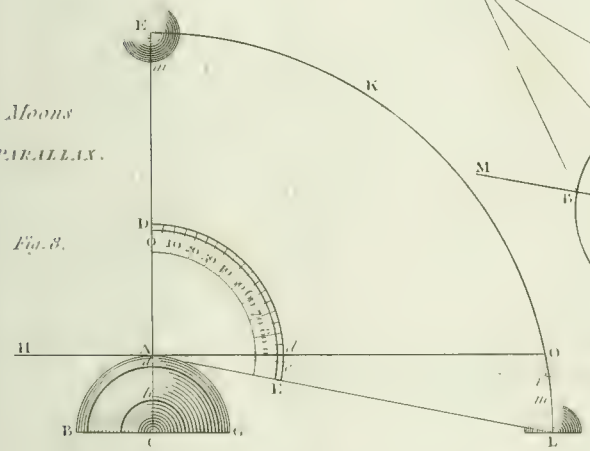
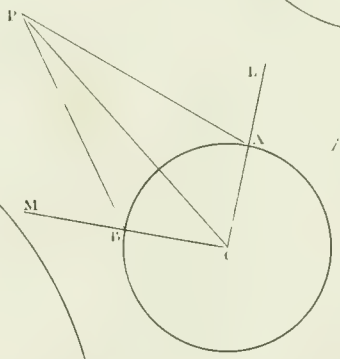


Moons
PARALLAX.

Fig. 9.



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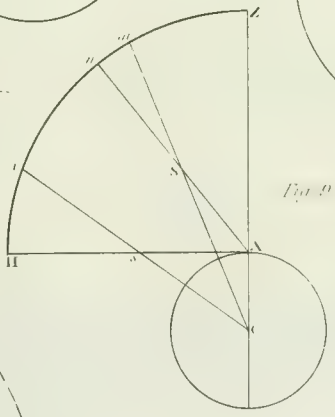

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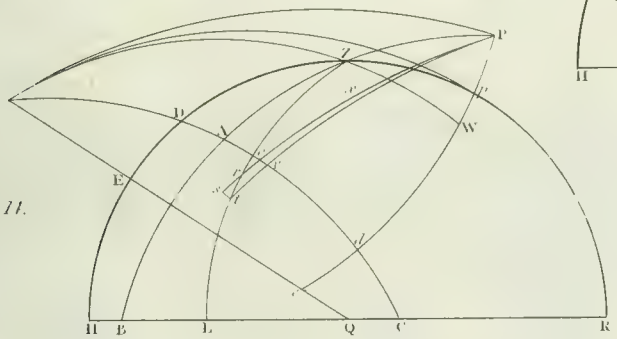

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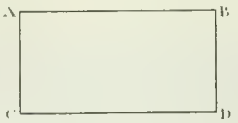

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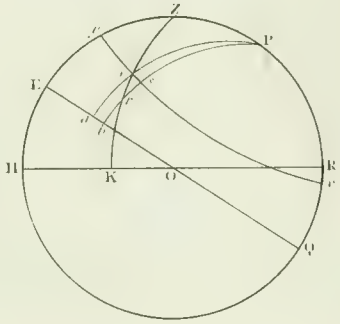

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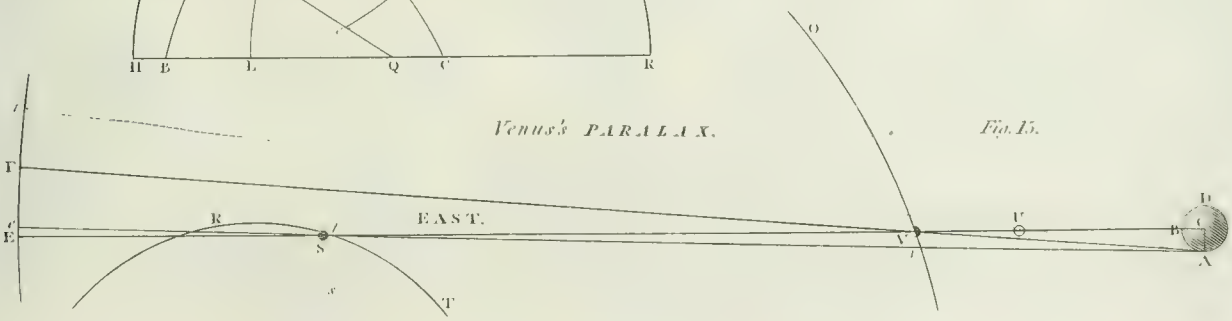

Fig. 15.

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Lowry sculp.

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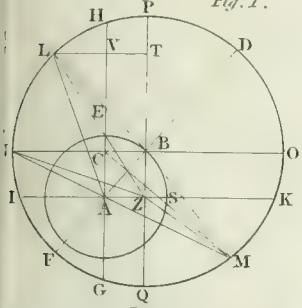

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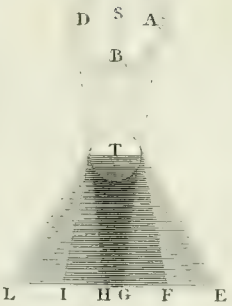

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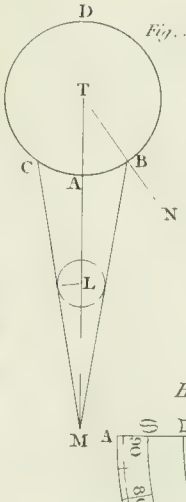

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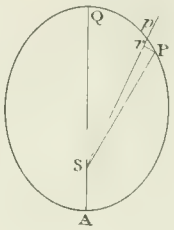
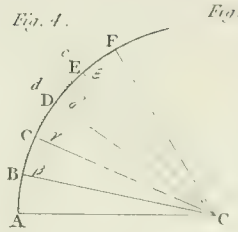


PLANET

Fig. 4.



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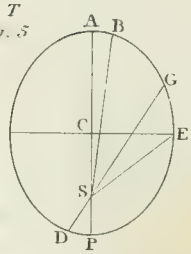
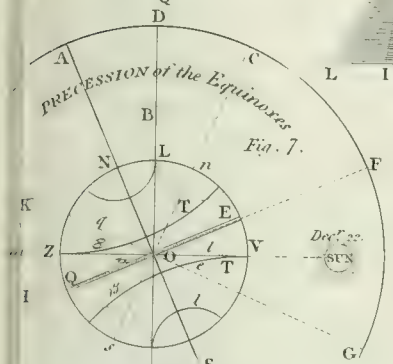
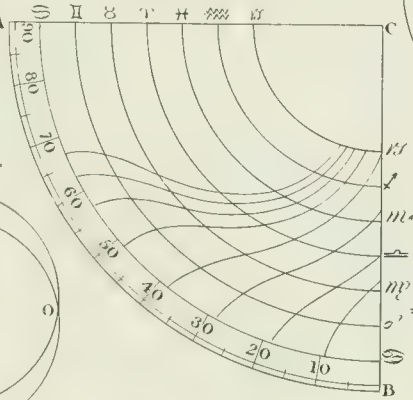




PRECESSION of the Equinoxes Fig. 7.

Fig. 8.

Horodictical QUADRANT.



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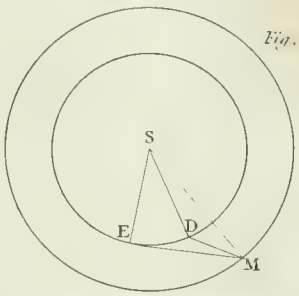

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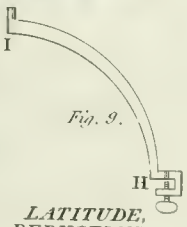
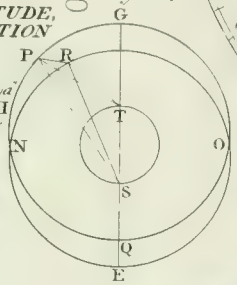
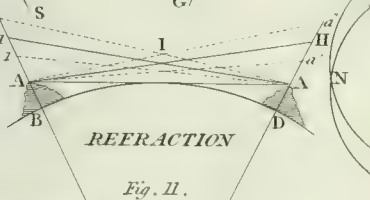


Fig. 10.

LATITUDE, REDUCTION



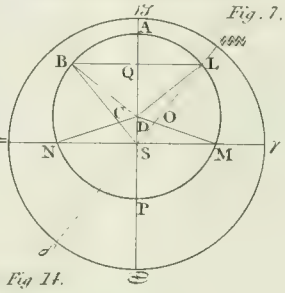


REFRACTION

Fig. 11.

PROSTHAPHÆRESIS

Fig. 7.



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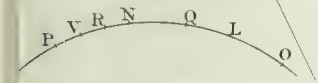

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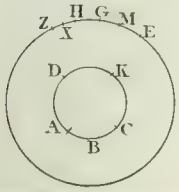

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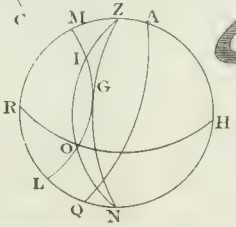
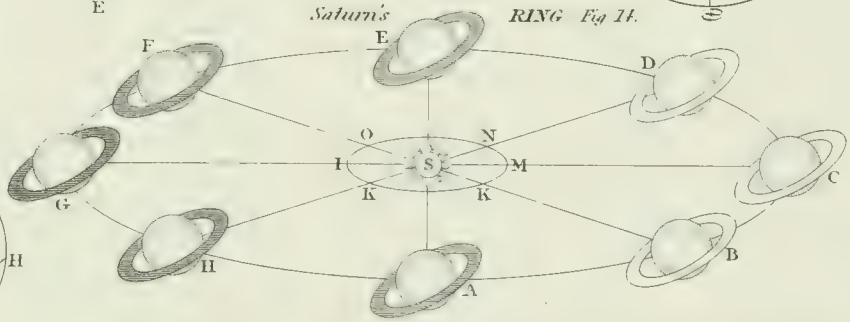


Saturn's RING Fig 14.



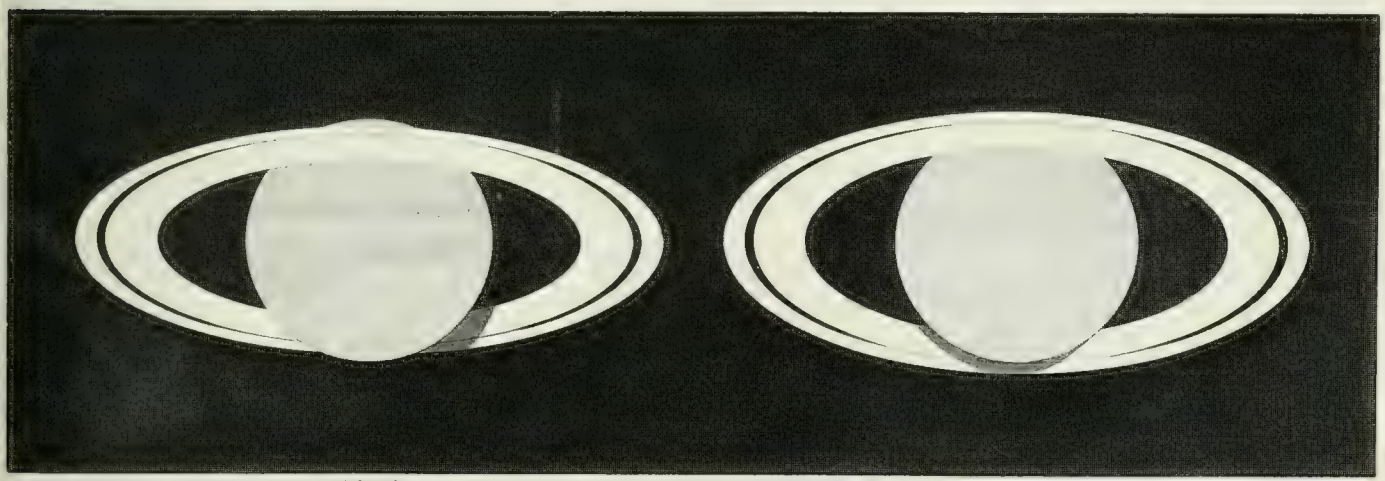


Fig. 15.

Fig. 16.

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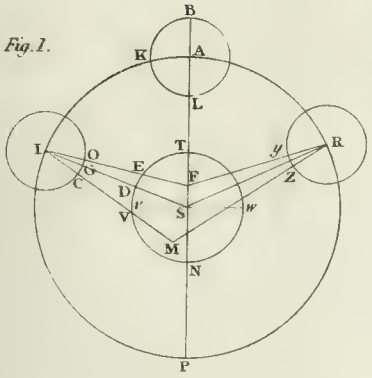
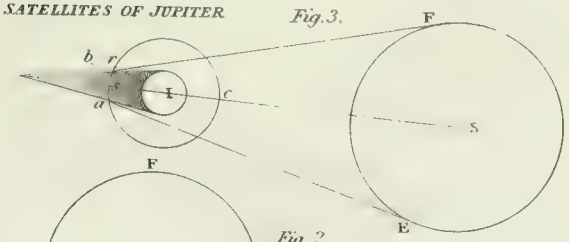
Fig. 1.



SATELLITES OF JUPITER

Fig. 3.



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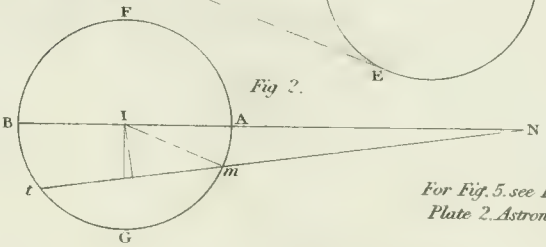


CONFIGURATION

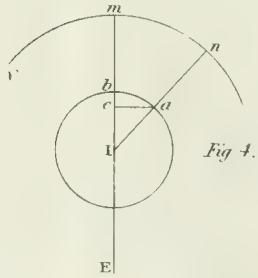
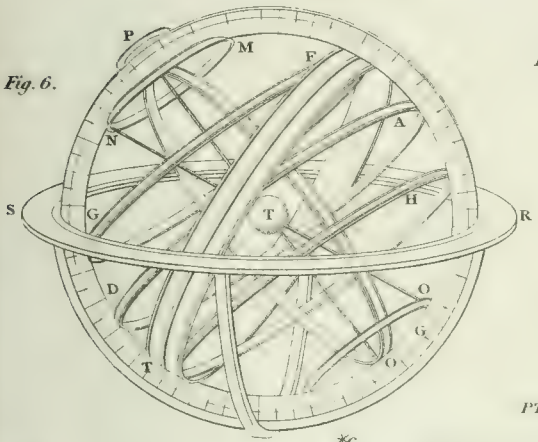


Fig 4.

For Fig. 5. see Fig. 14. Plate 2. Astronomy

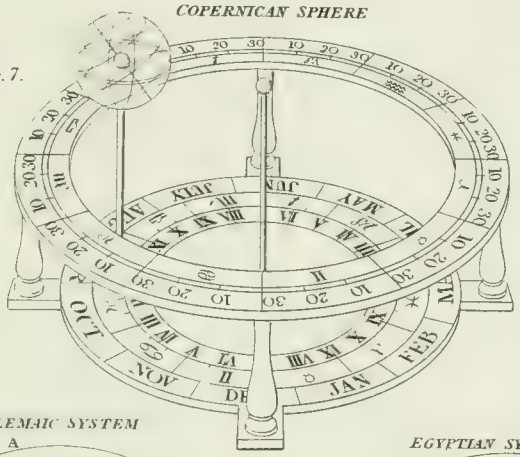
PTOLEMAIC ARMILLARY SPHERE

Fig. 6.



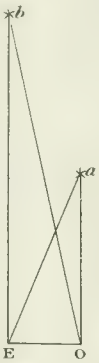
COPERNICAN SPHERE

Fig. 7.



STARS

Fig. 8.



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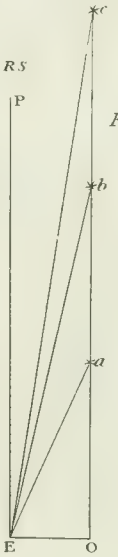

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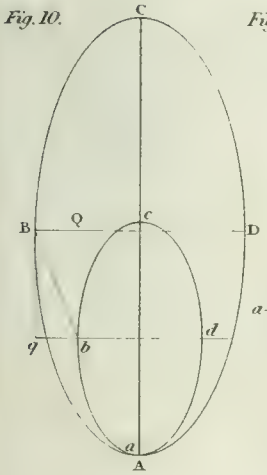
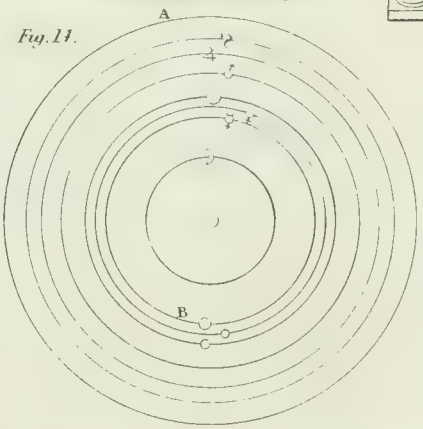


Fig. 11.

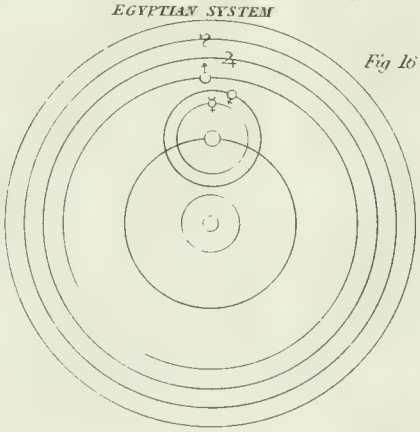
PTOLEMAIC SYSTEM

Fig. 14.



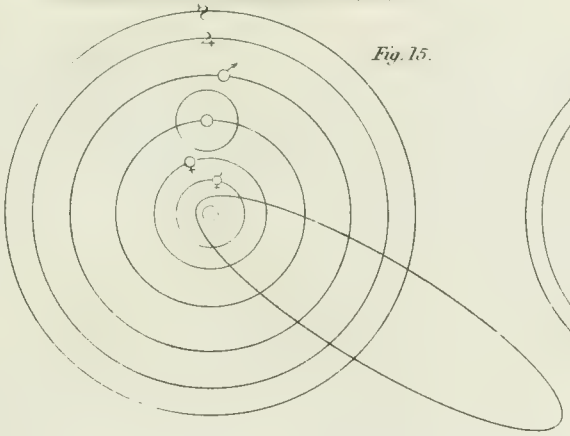
EGYPTIAN SYSTEM

Fig 16



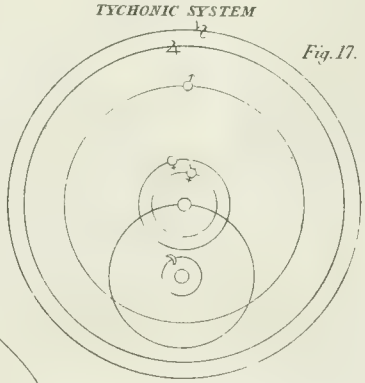
PYTHAGOREAN and COPERNICAN SYSTEM

Fig. 15.



TYCHONIC SYSTEM

Fig. 17.



STARS

Fig. 12.

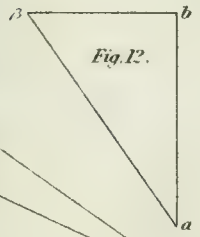
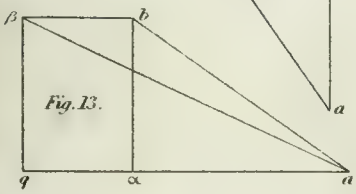


Fig. 13.



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Lowry sculp.

SOLAR SYSTEM

Fig. 1

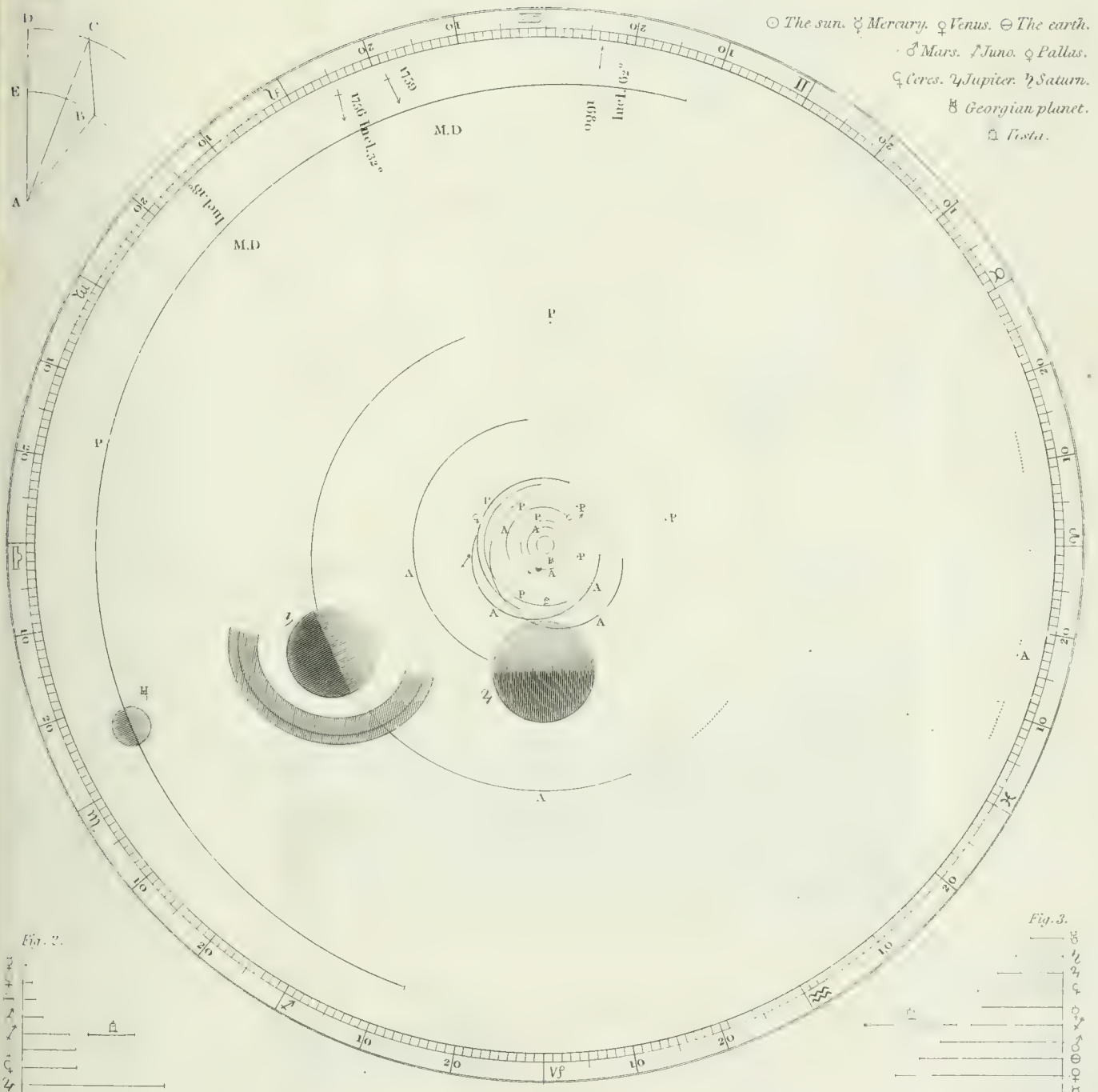

Fig. 2.

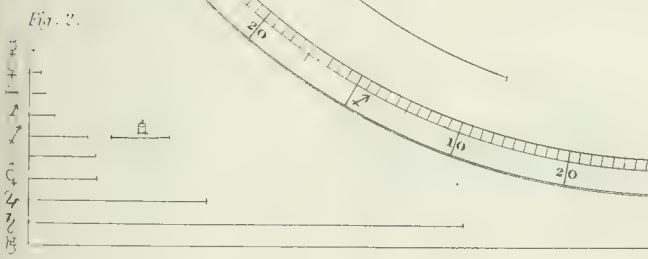

Fig. 3.

Fig. 4.

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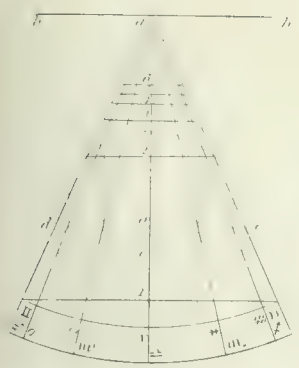
Lowry sculp.

Fig. 5.



TRIGON

Fig. 6

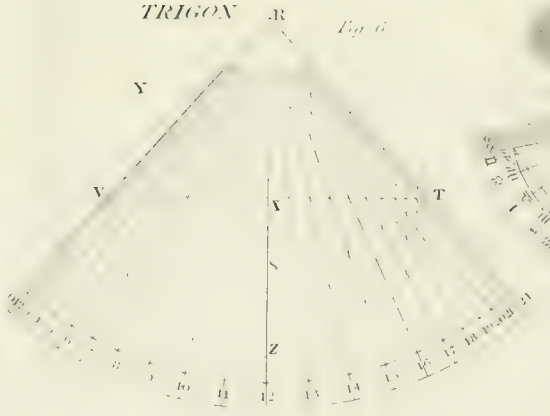
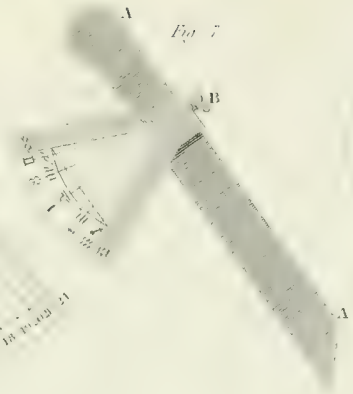


Fig. 7



VENUS

Fig. 8.

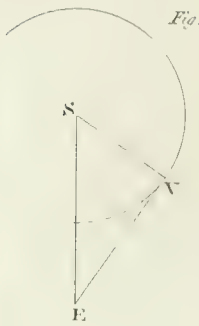


Fig. 9.

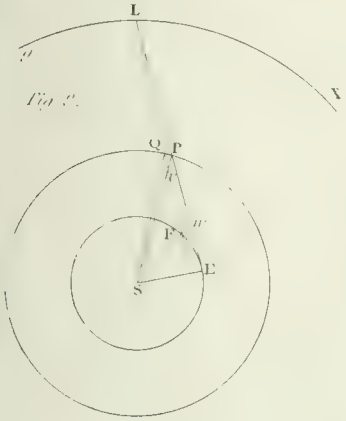


Fig. 10.

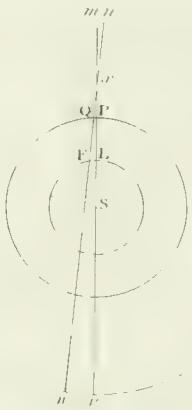
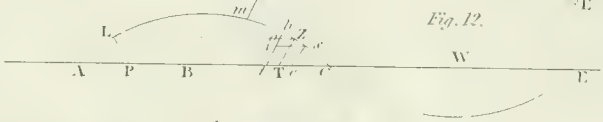


Fig. 11

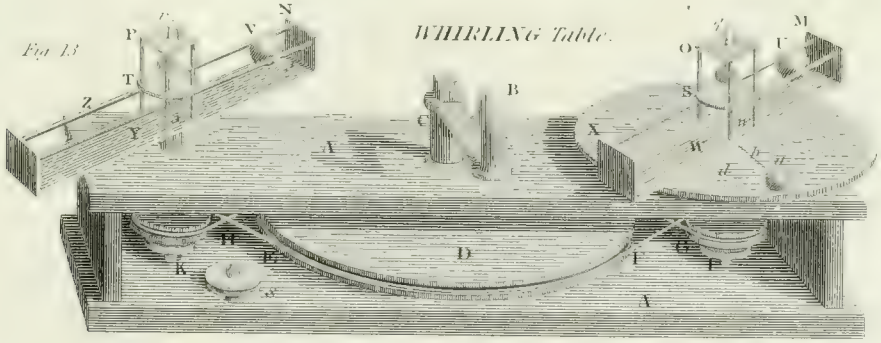
YEAR

Fig. 12.



WHIRLING Table.

Fig. 13



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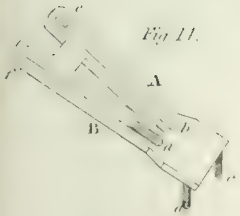


Fig. 15

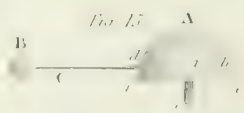


Fig. 16

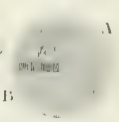


Fig. 17.

Fig. 18.

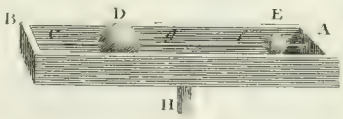
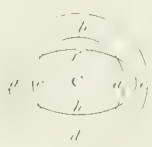


Fig. 19.



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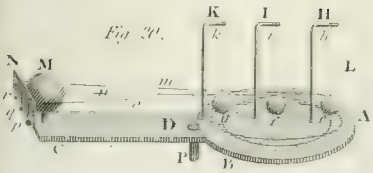


Fig. 21

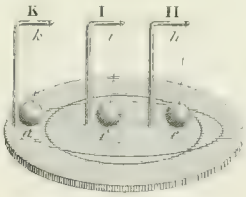
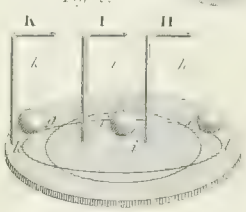


Fig. 22



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Lowry Sc.

PROJECTION ON THE PLANE OF THE ECLIPTIC

OF THE PARABOLIC ORBITS OF 72 COMETS,

whose Courses have been Calculated.

By M.r Bode of the Royal Academy of Prussia &c.

Perih. of the Comet in

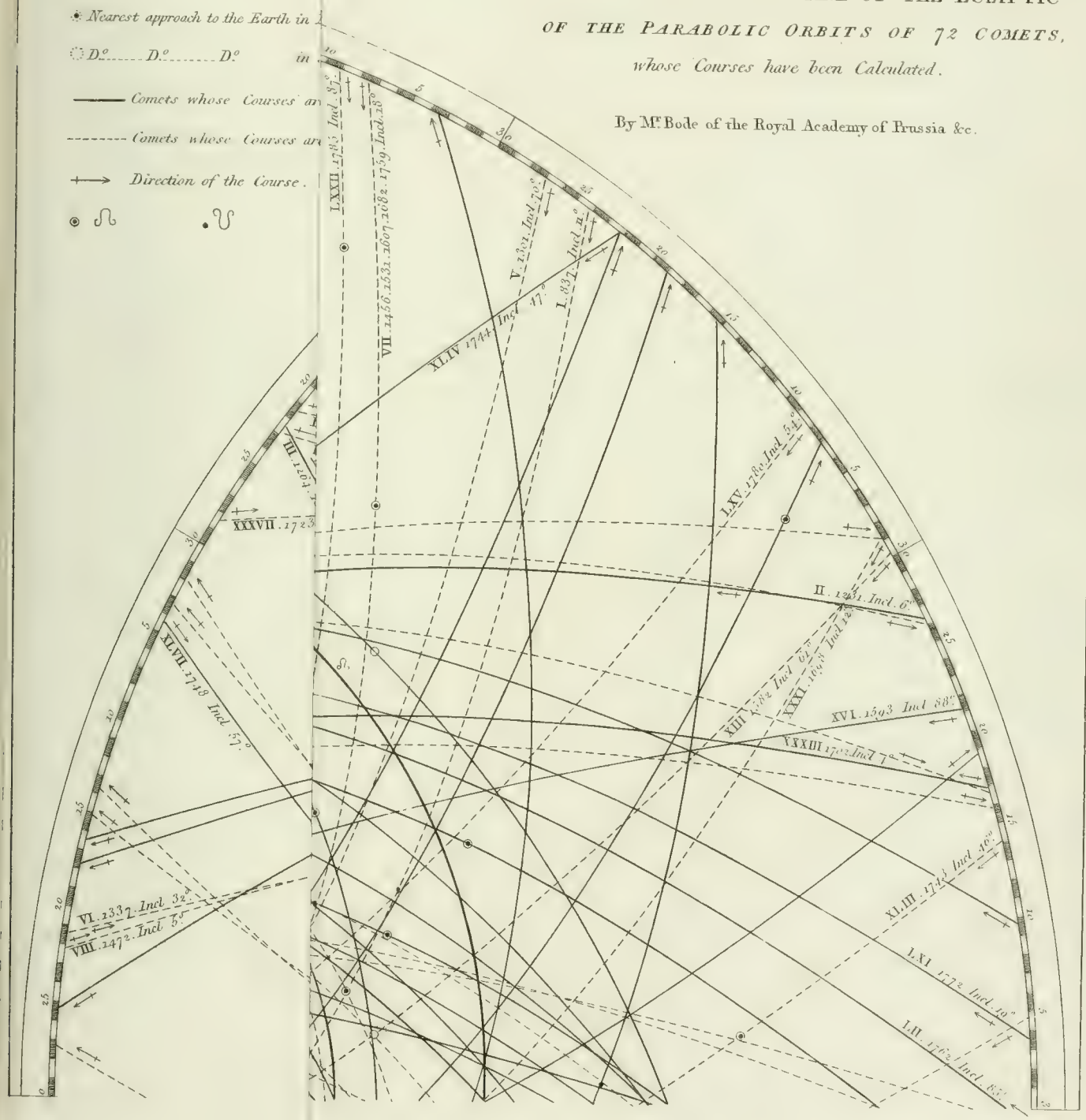
Nearest approach to the Earth in

D.° *D.°* *D.°* *in*

Comets whose Courses are

Comets whose Courses are

Direction of the Course.


LXXII. 1783 Incl. 87°
VII. 1456. 1531. 1607. 1682. 1759 Incl. 28°
V. 1301 Incl. 70°
I. 837 Incl. 11°
XLIV. 1744 Incl. 47°
III. 1264
XXXVII. 1723
LXV. 1780 Incl. 54°
II. 1233 Incl. 6°
XLVII. 1718 Incl. 57°
XIII. 1532 Incl. 62°
XXXI. 1665 Incl. 12°
XVI. 1593 Incl. 88°
XXXIII. 1702 Incl. 1°
VI. 1337 Incl. 32°
VIII. 1472 Incl. 5°
XLIII. 1743 Incl. 46°
LXI. 1772 Incl. 19°
LII. 1762 Incl. 85°

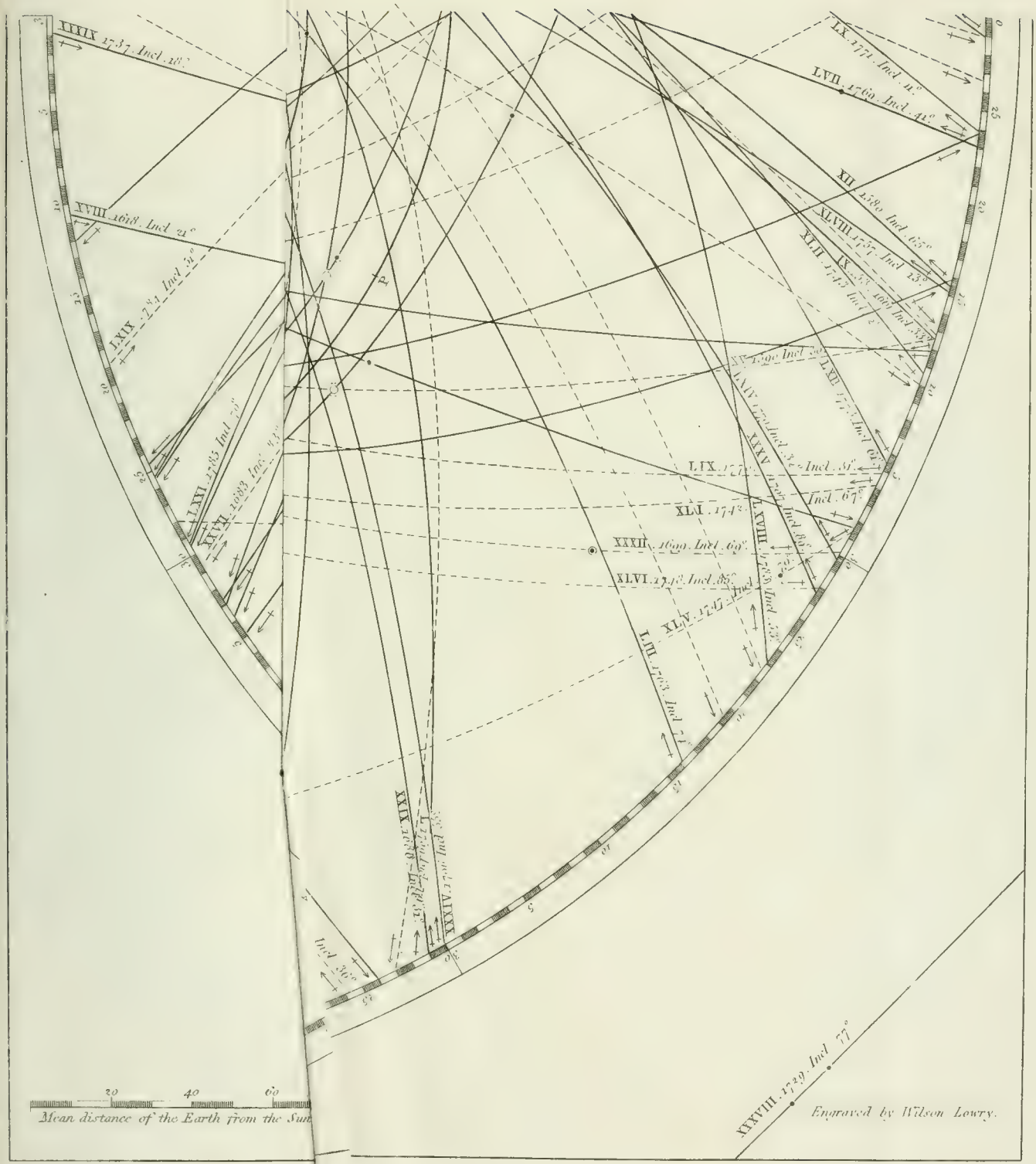
PROJECTION ON THE PLANE OF THE ECLIPTIC

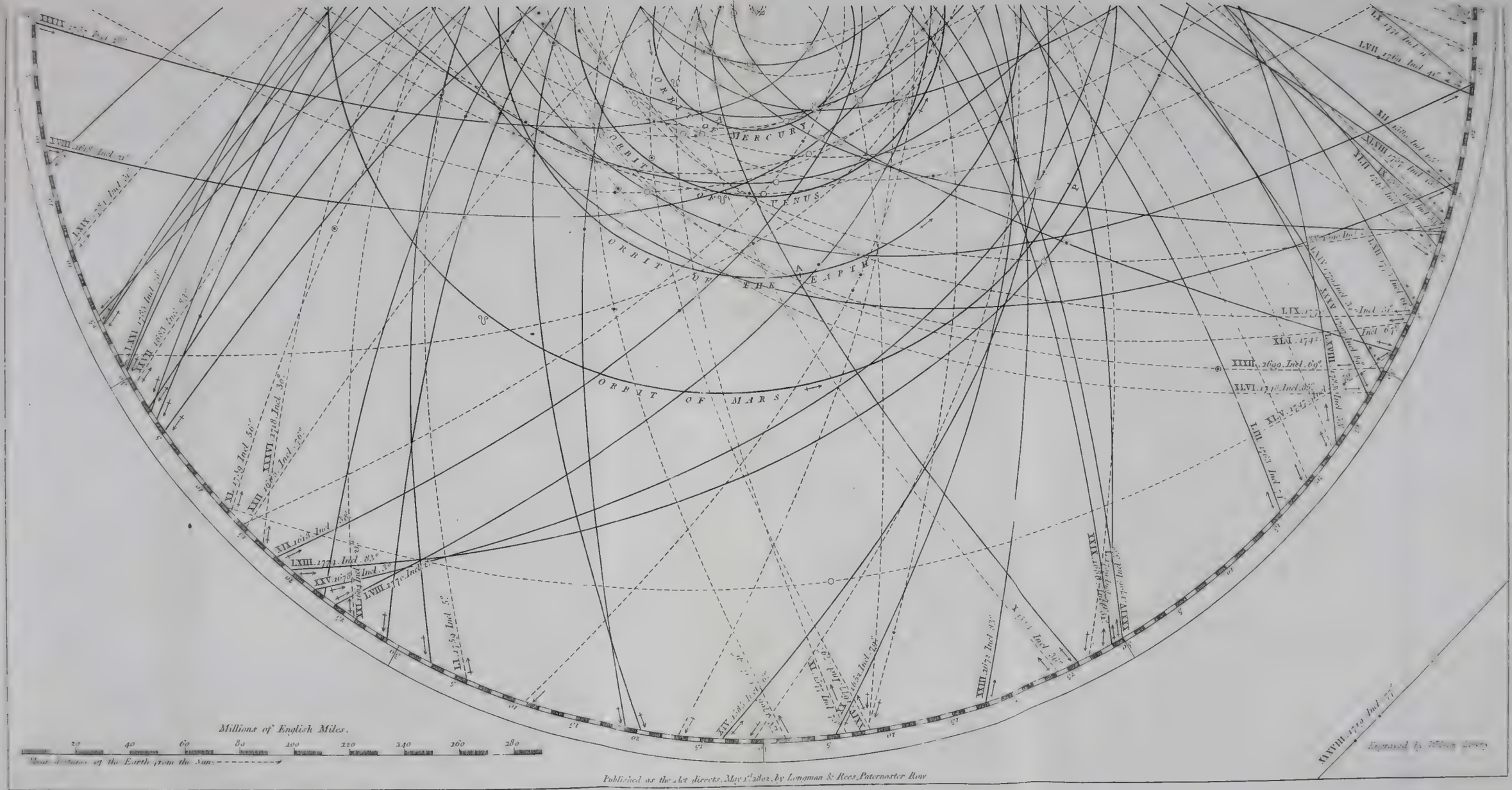
OF THE PARABOLIC ORBITS OF 72 COMETS,

whose Courses have been Calculated.

By M.r Bode of the Royal Academy of Prussia &c.

Perih. of the Comet in
North Latitude.
South Latitude.
Nearest approach to the Earth in North Latitude
D.o ..... D.o ..... D.o ..... in South Latitude
Comets whose Courses are direct.
Comets whose Courses are retrograde.
Direction of the Course.


XXXIX. 1737. Incl. 18°
XVIII. 1668. Incl. 21°
XIX. 1784. Incl. 32°
LXXI. 1785. Incl. 75°
LXVI. 1683. Incl. 93°
LX. 1771. Incl. 11°
LVII. 1769. Incl. 41°
XII. 1538. Incl. 65°
XLVIII. 1757. Incl. 15°
XLII. 1745. Incl. 4°
IX. 1537. 1661 Incl. 33°
LXII. 1775. Incl. 61°
LIX. 1773. Incl. 81°
Incl. 67°
XLI. 1741
XXXII. 1699. Incl. 69°
XLVI. 1748. Incl. 85°
XLV. 1745
LIII. 1763. Incl. 21°
XXXIV. 1729. Incl. 77°
Incl. 26°
20
40
60
Mean distance of the Earth from the Sun
Engraved by Wilson Lowry.

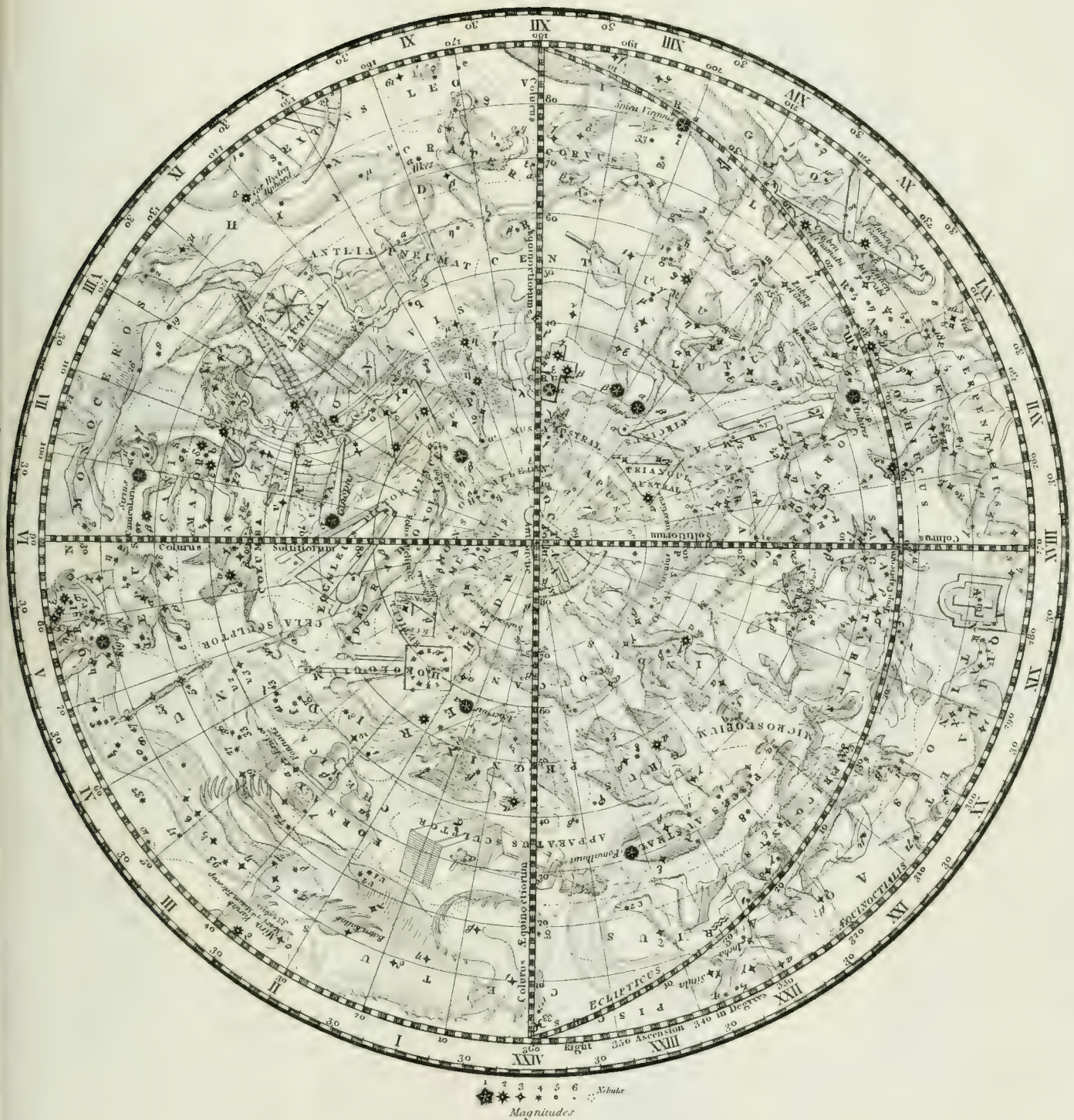

ORBIT OF MERCURY
ORBIT OF VENUS
ORBIT OF THE EARTH
ORBIT OF MARS
Millions of English Miles.
20 40 60 80 100 120 140 160 180
Mean distance of the Earth from the Sun

Published as the Act directs, May 1st 1802, by Longman & Rees, Paternoster Row

NORTHERN HEMISPHERE

Published as the Act directs, Oct.1st 1811, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

SOUTHERN HEMISPHERE.



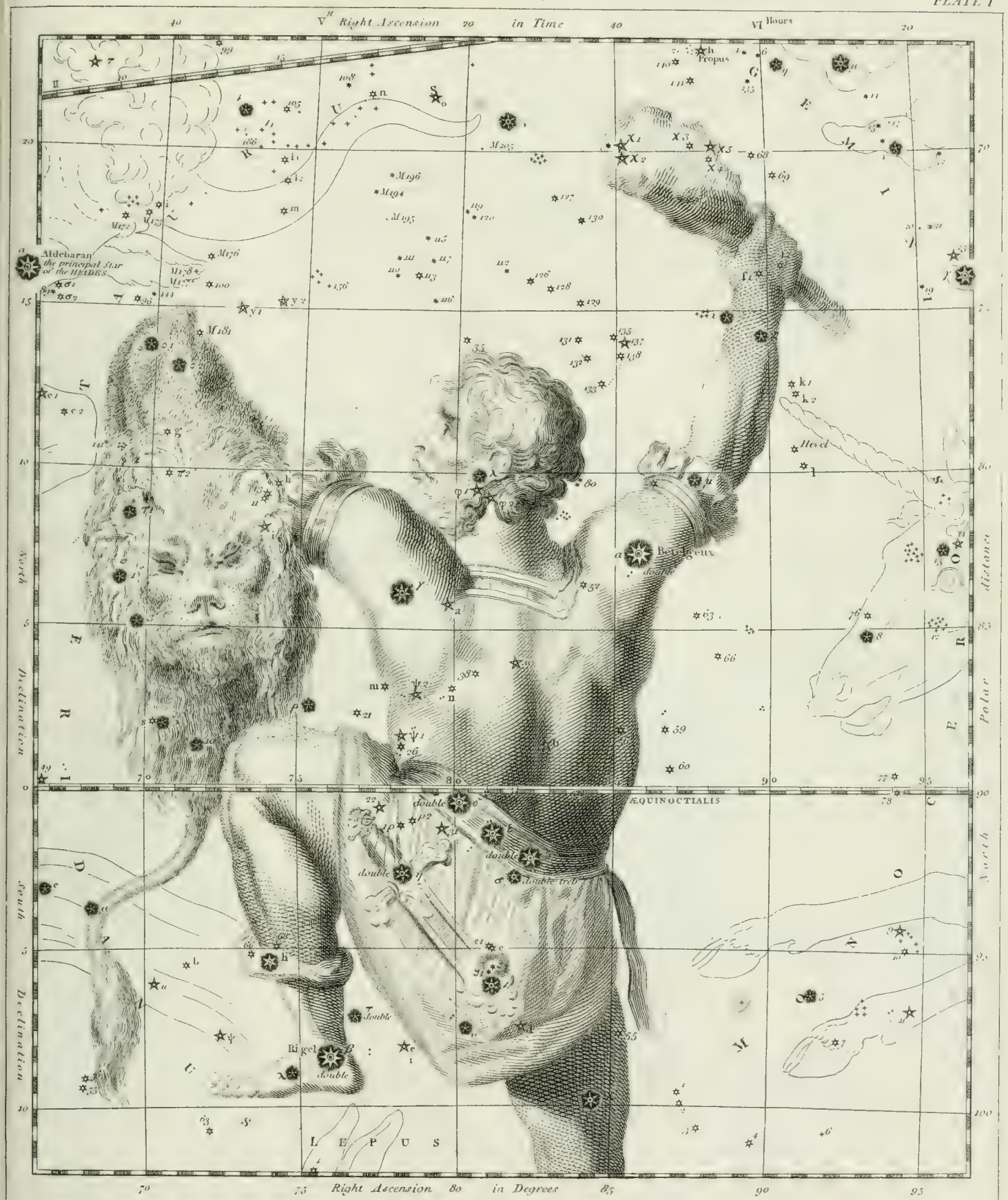
Published as the Act directs, Feb.1st 1810, by Longman, Hurst, Rees & Orme, Paternoster Row.

Milton Sculp

CONSTELLATION.

ORION.

Projected by right Ascension and Declination. *Corrected to the beginning of the Year 1808.* *PLATE I*



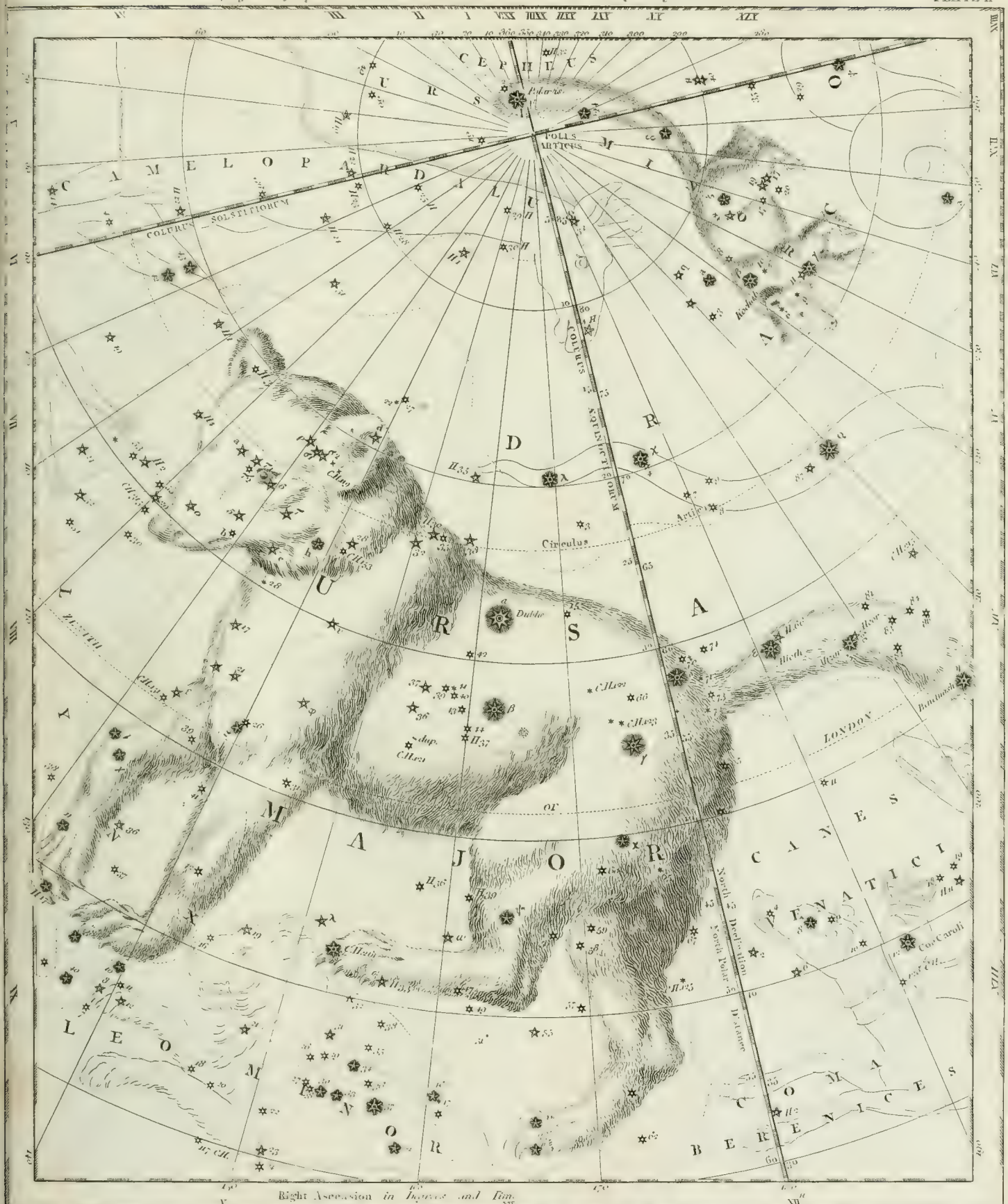
Published as the Act directs Jan.ʳʸ 1808, by Longman, Hurst Rees & Orme Paternoster Row

CONSTELLATIONS.

URSA MAJOR *and* URSA MINOR

projected by right Ascension and Declination — corrected to the beginning of the Year 1808.

PLATE II



L. Hebert del.

The numbers letters & Greek Characters refer to the British Catalogue.

Nebulæ

H. to Herschel's, CH. to CHerschels.

Published as the Act directs Feb.ry 1808 by Longman Hurst Rees & Orme Paternoster Row.

ASTRONOMICAL INSTRUMENTS.

Fig 1

Astrolabe

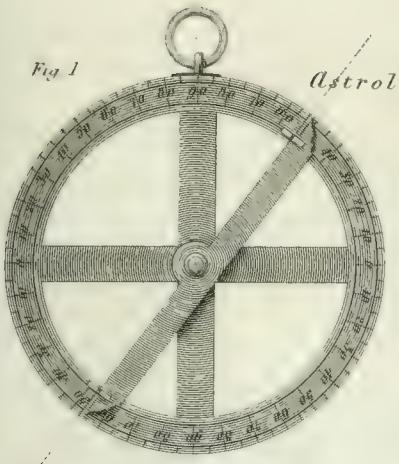


Fig. 2

Davis's Quadrant

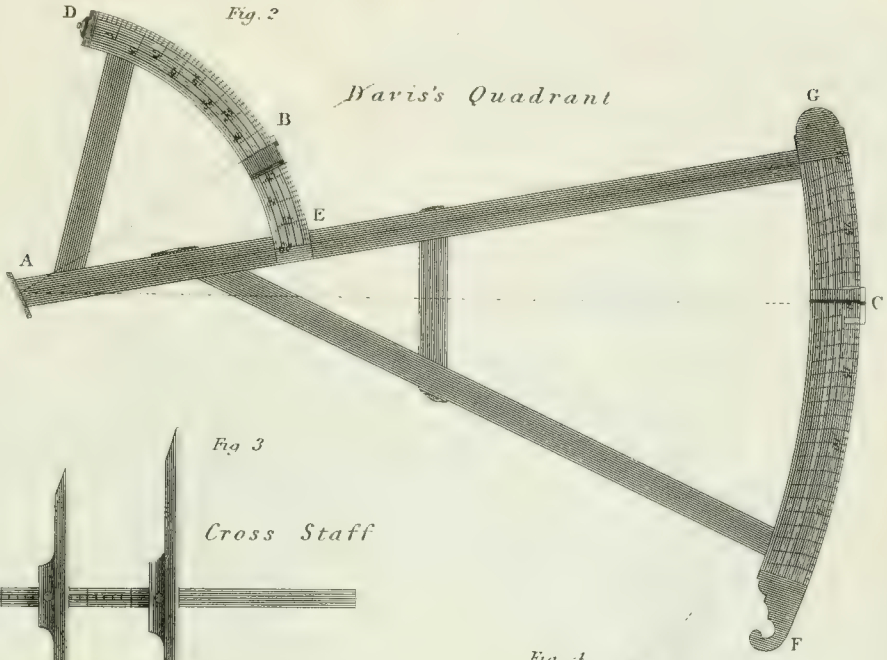


Fig 3

Cross Staff

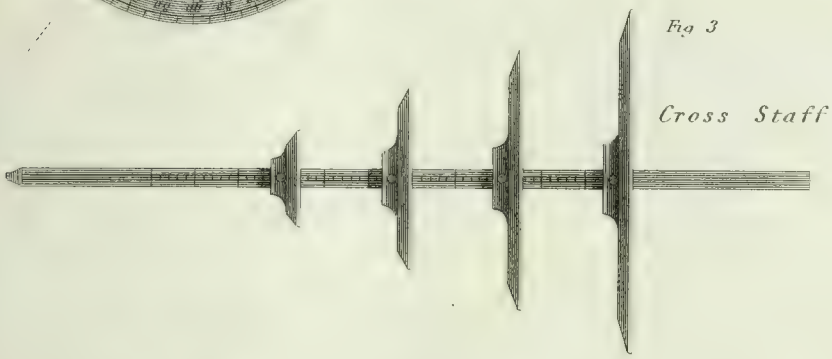


Fig 4

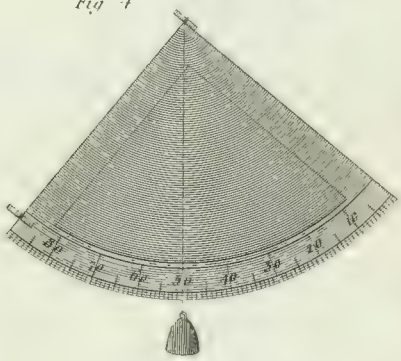


Fig 8

Elton's Quadrant

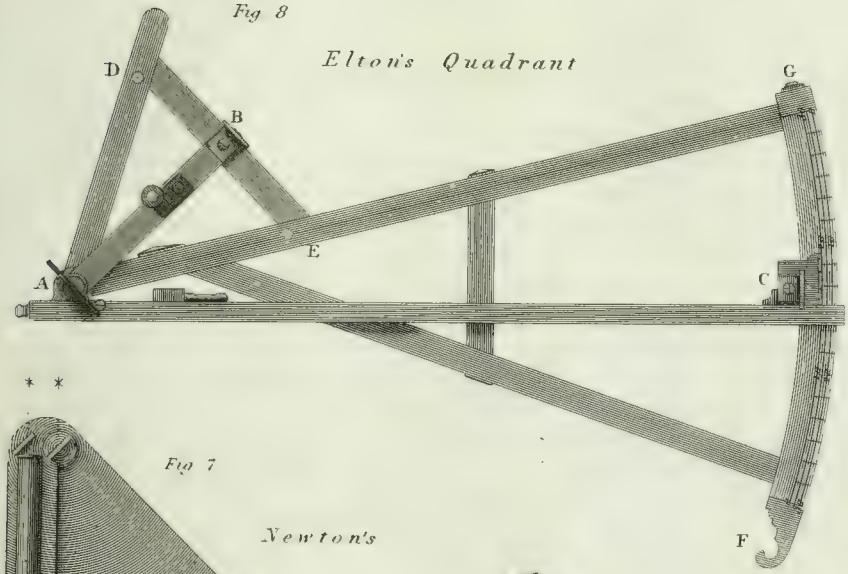


Fig. 6.

Nocturnal or

Star Dial

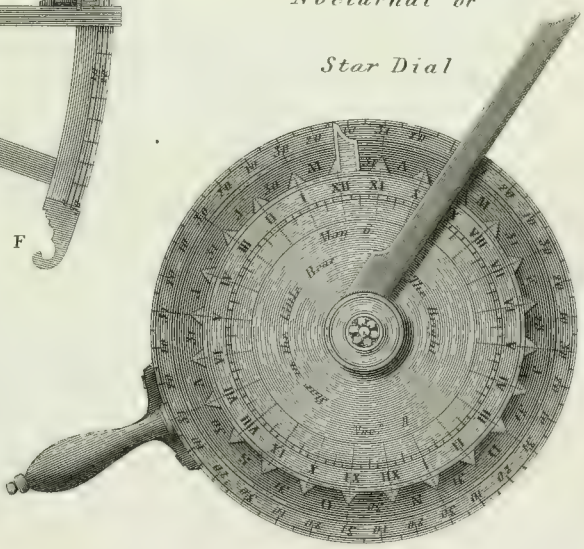
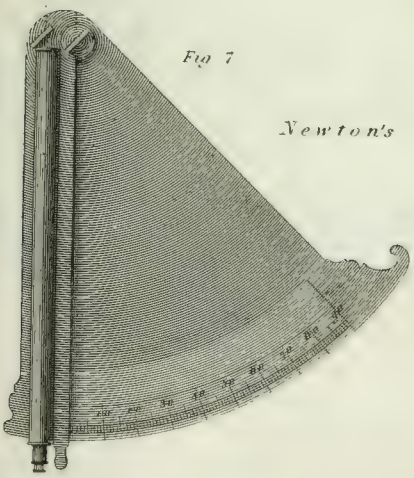


Fig 7

Newton's



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ASTRONOMICAL INSTRUMENTS

CIRCLE.

Fig 2

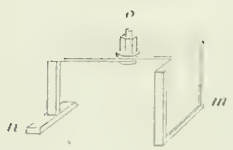
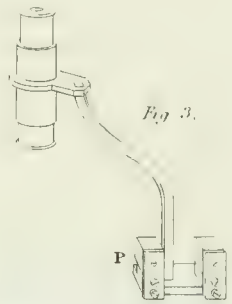
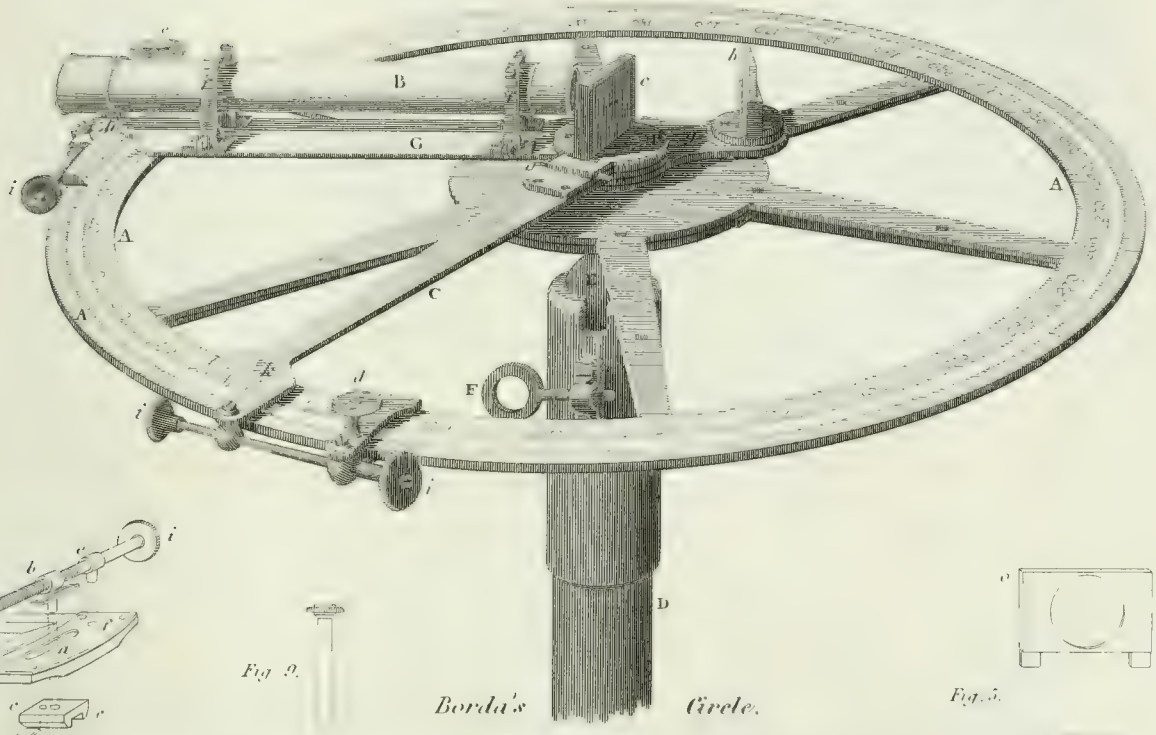


Fig 3.



Mayer's Circle.

Fig 1.



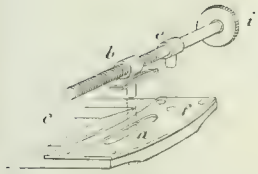
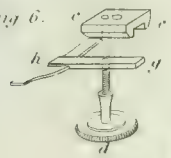


Fig 9.

Fig 6.



Borda's Circle.

Fig 4.

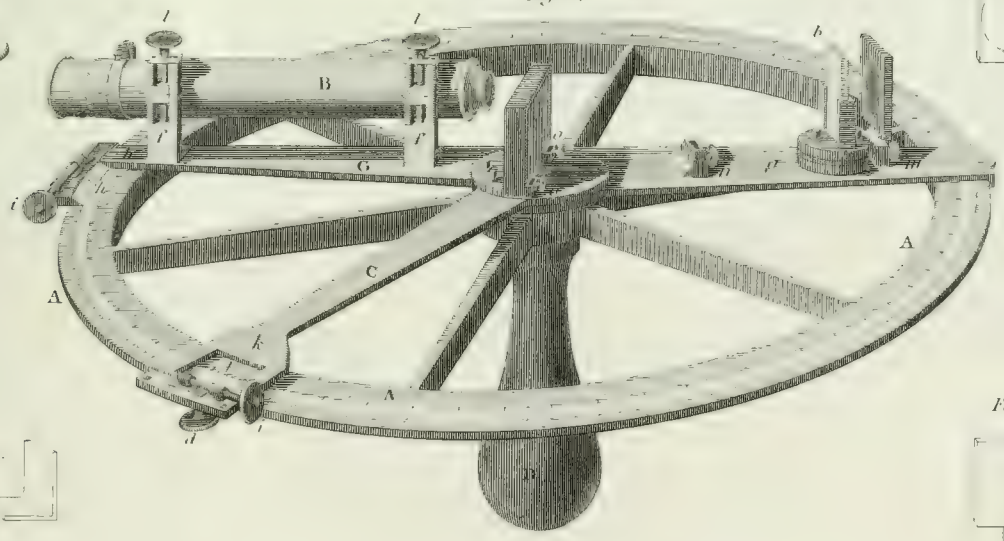


Fig 5.

Fig 7.

Fig 8.

Farey del. Published as the Act directs, 1816, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry Sc.

ASTRONOMICAL INSTRUMENTS.

The English REFLECTING CIRCLE by Troughton.

Fig. 1.

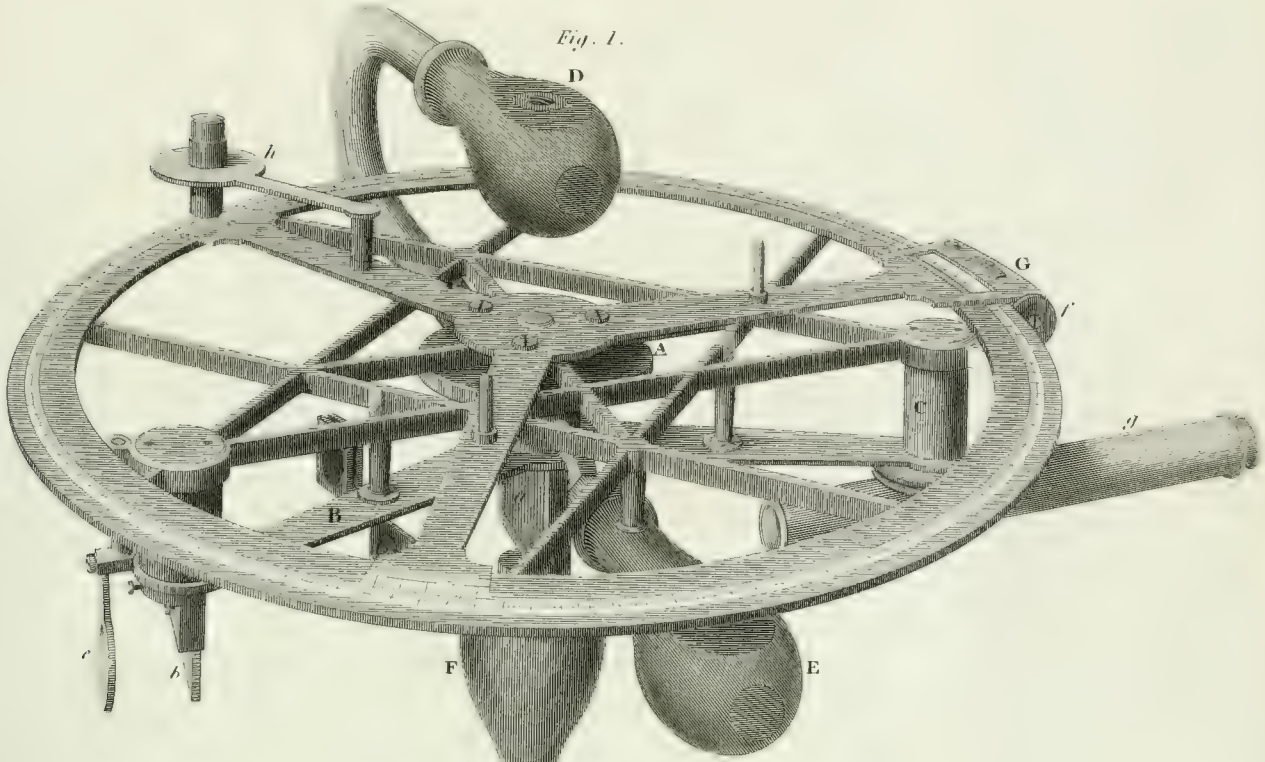
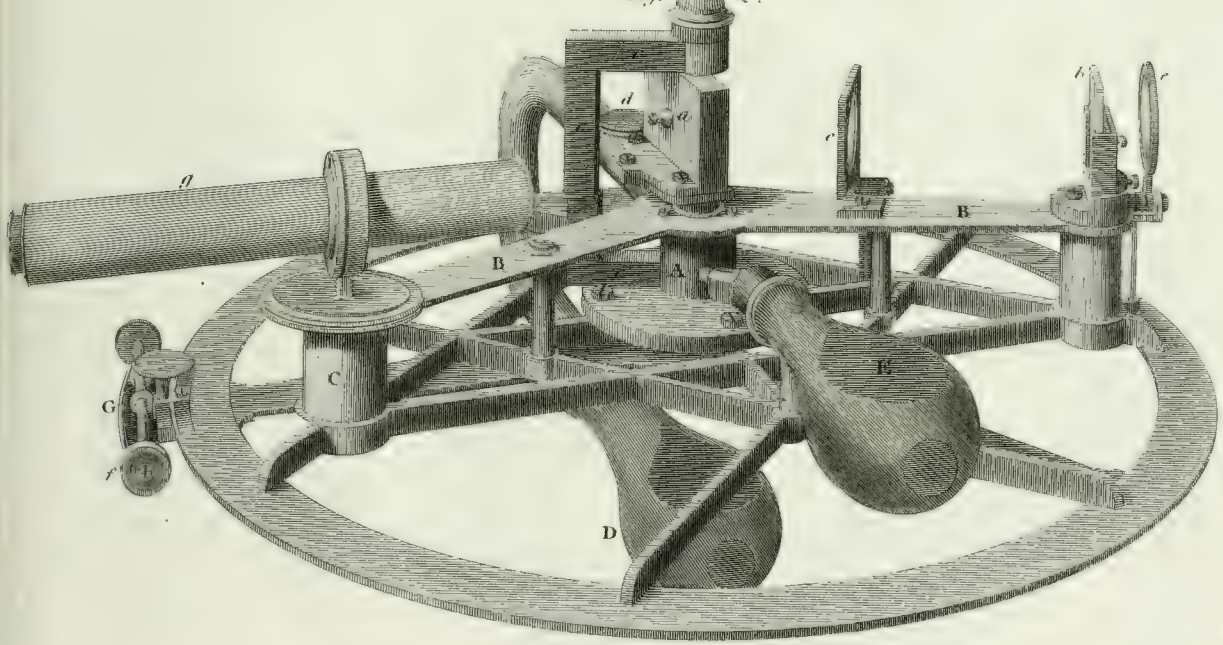


Fig. 2.



J. Farey Junr. delin. Published as the Act directs, 1817, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry Sc.

Fig. 1.

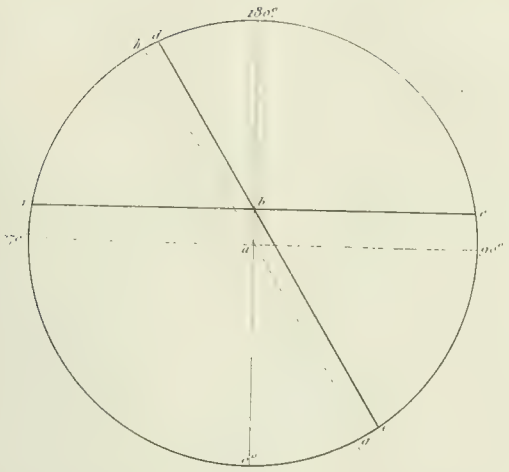


Fig. 2.

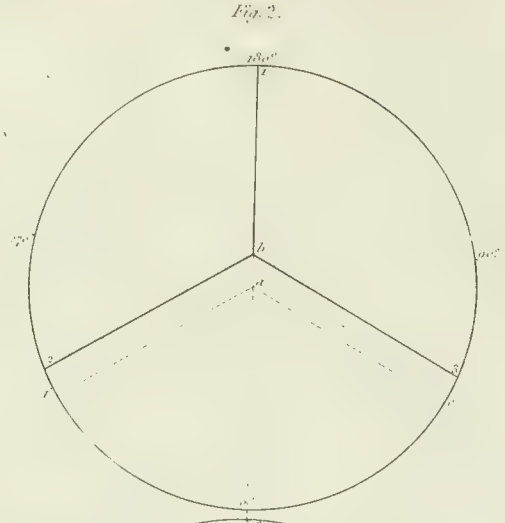


Fig. 3.

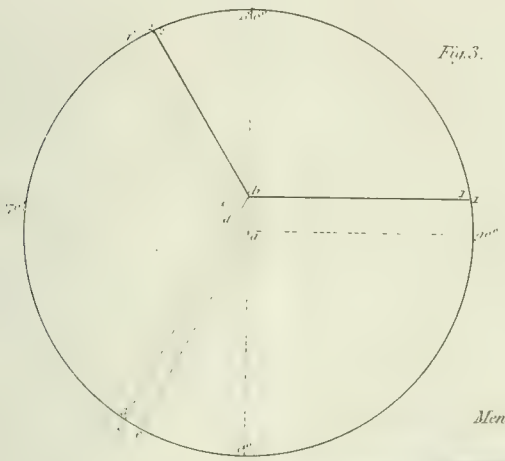
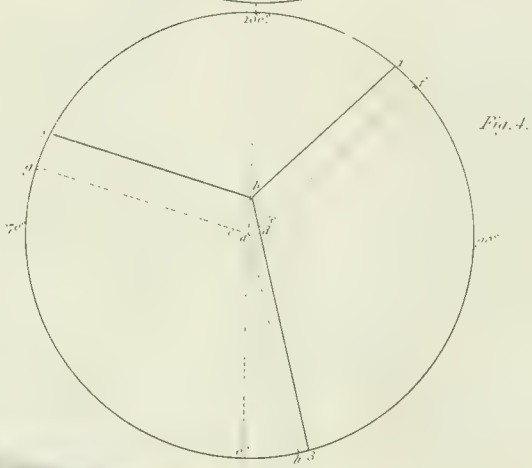
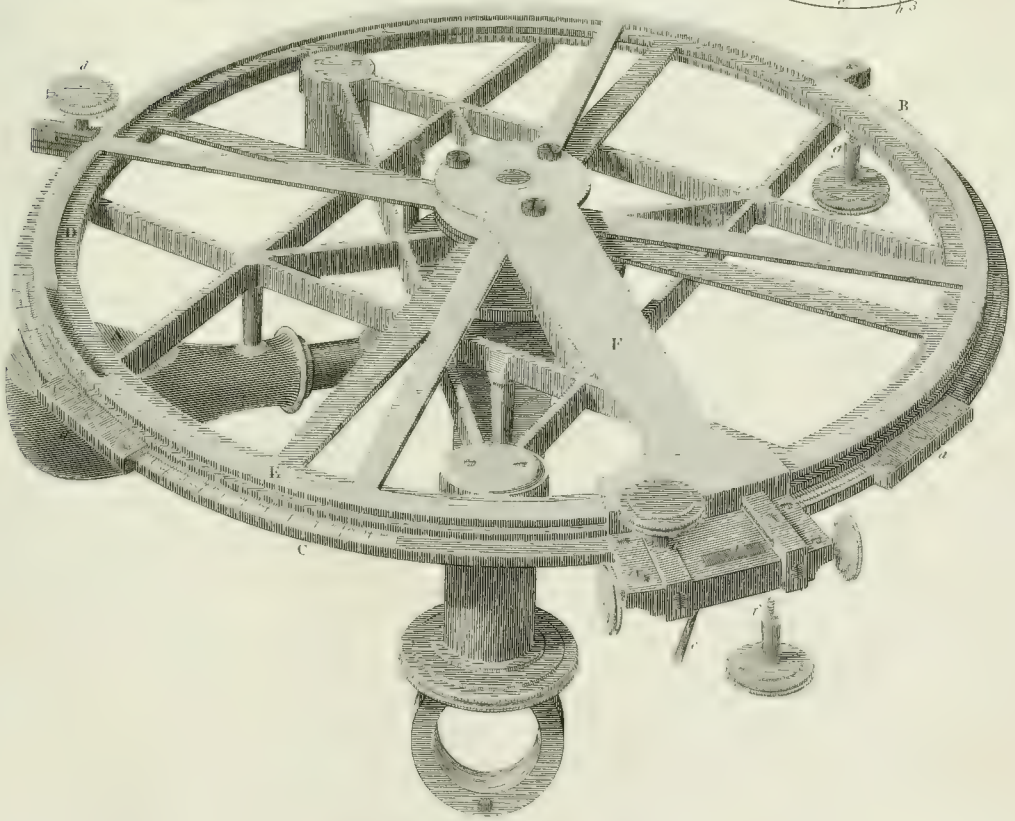


Fig. 4.



Mendoza's Circle Fig. 5.



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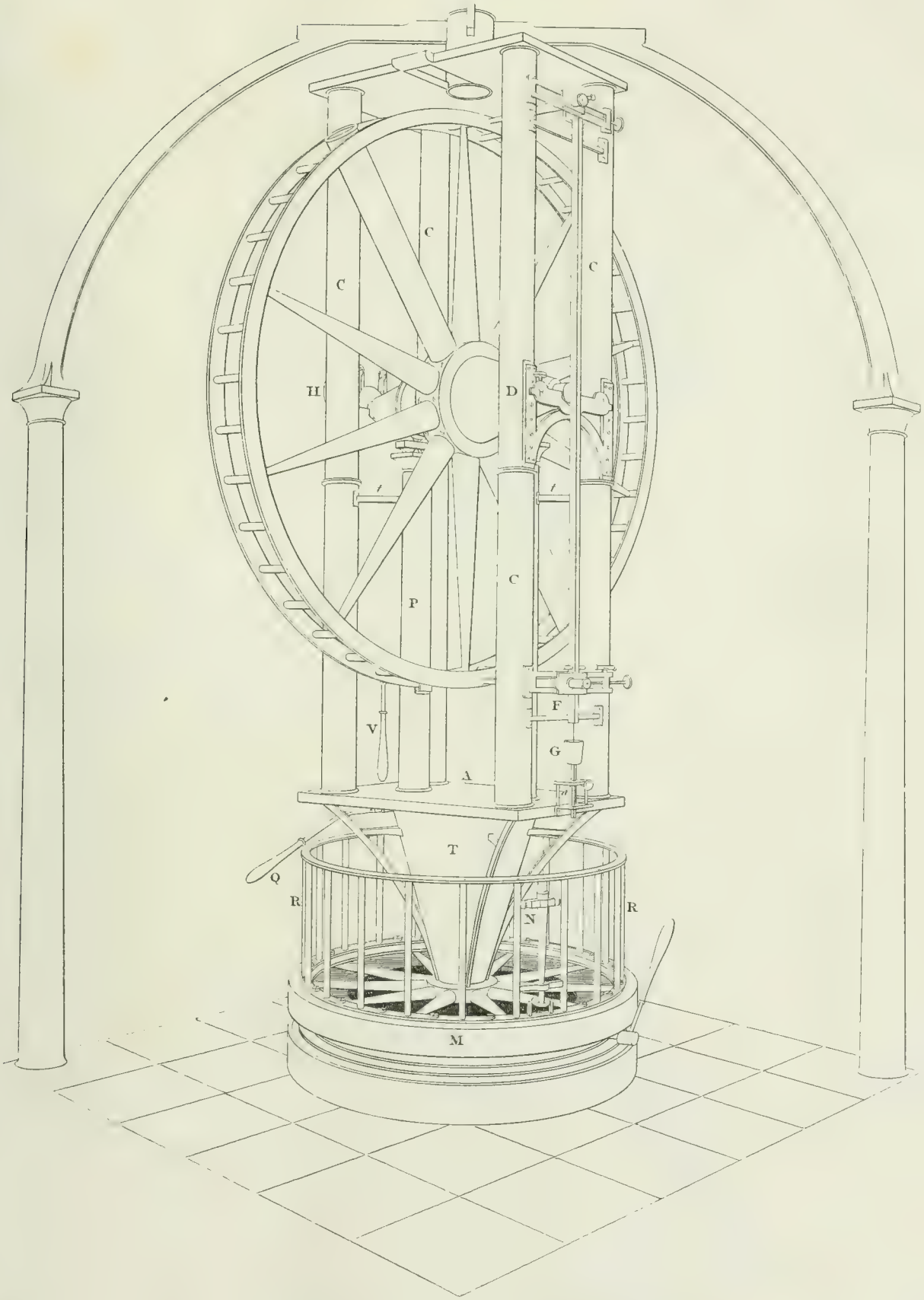
ASTRONOMICAL INSTRUMENTS.

Ramsden's, CIRCLE.

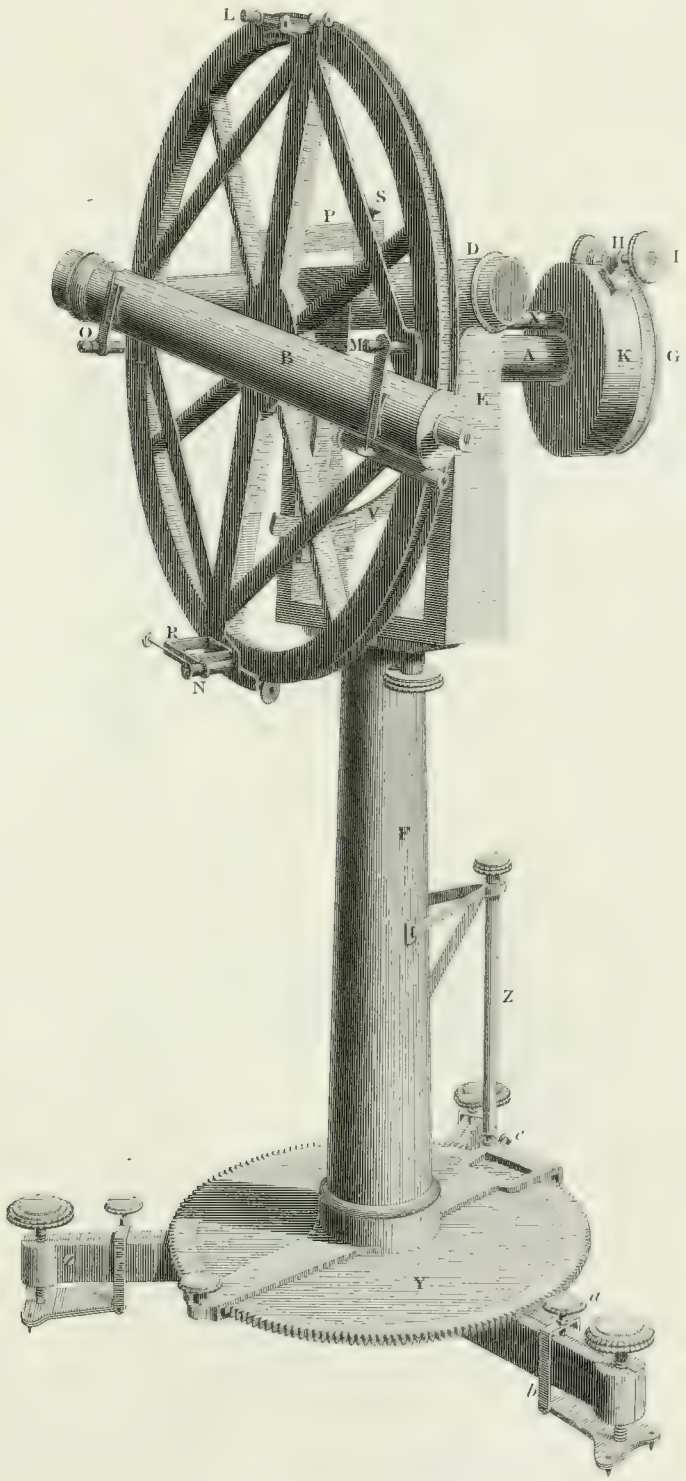


reg.Jun.t del.in.

Published as the Act directs, 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry Sc.

Borda's repeating Circle without reflection.



Drawn by J. Farey Junr.

Published as the Act directs 1820, by Longman Hurst Rees Orme & Brown Paternoster Row.

Engraved by Sidy Hall

The Repeating CIRCLE without reflection by Troughton.

Fig 1

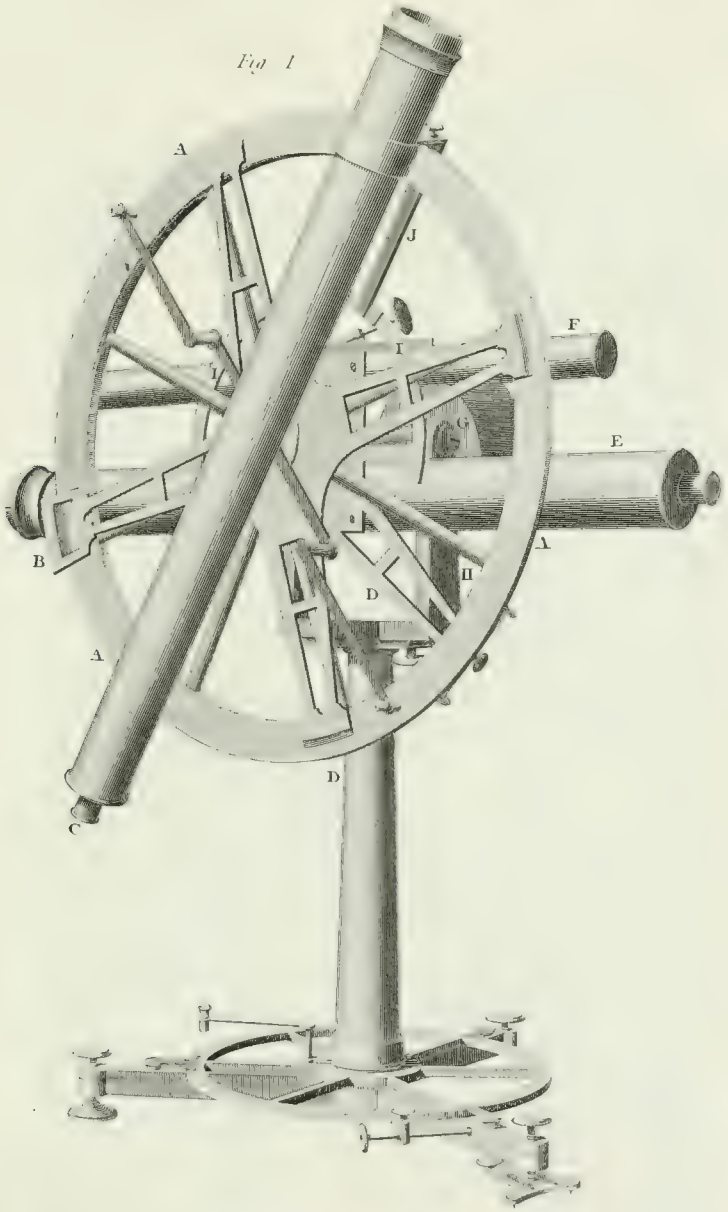
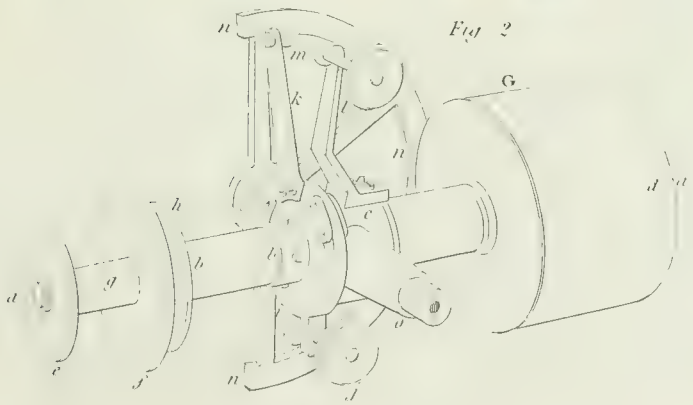


Fig 2

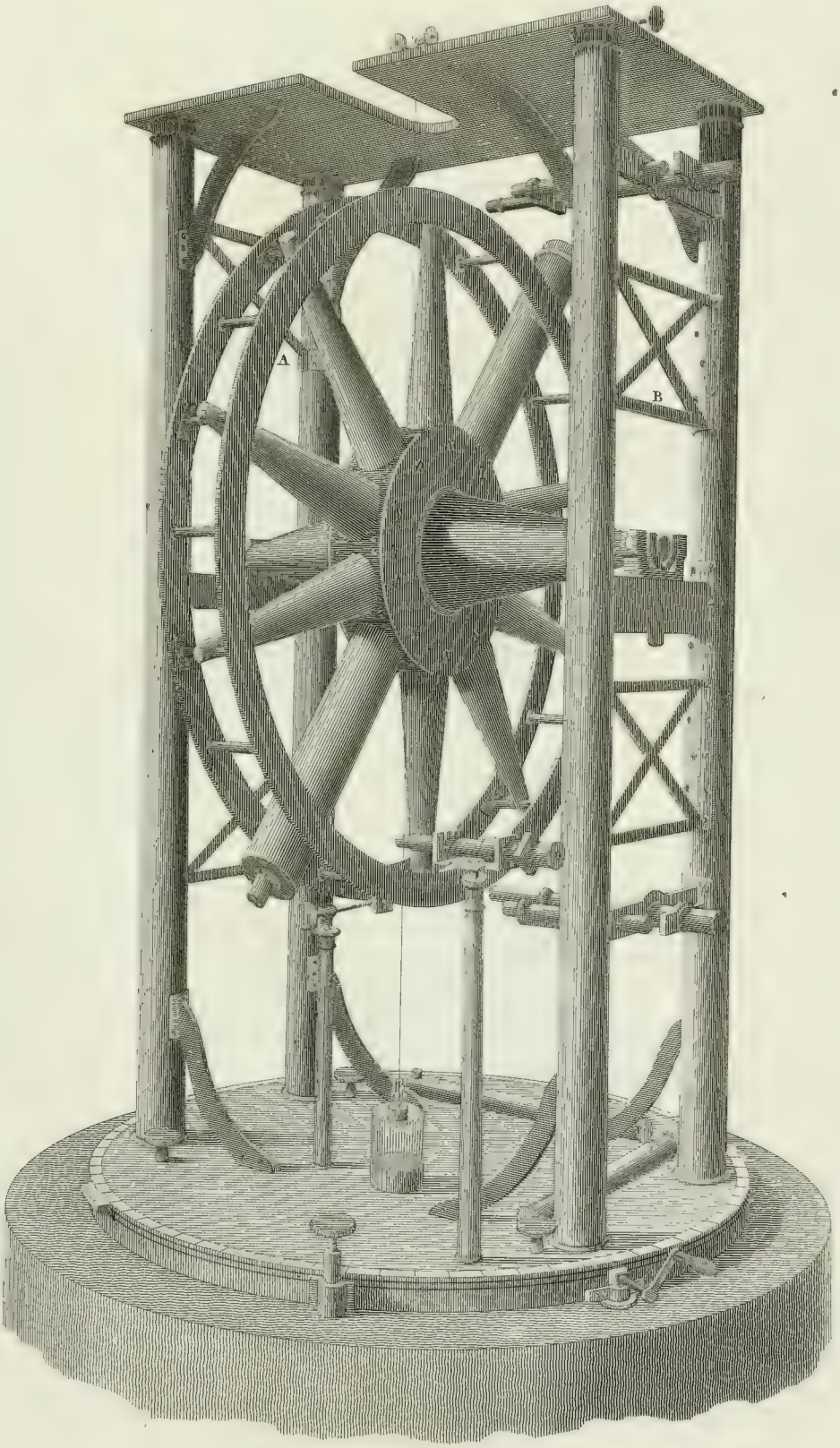


J. Farey, Junr. del. Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry, sc.

ASTRONOMICAL INSTRUMENTS.

CIRCLE

by the Rev.d Francis Woollaston.



J. Farey Jun.r del.

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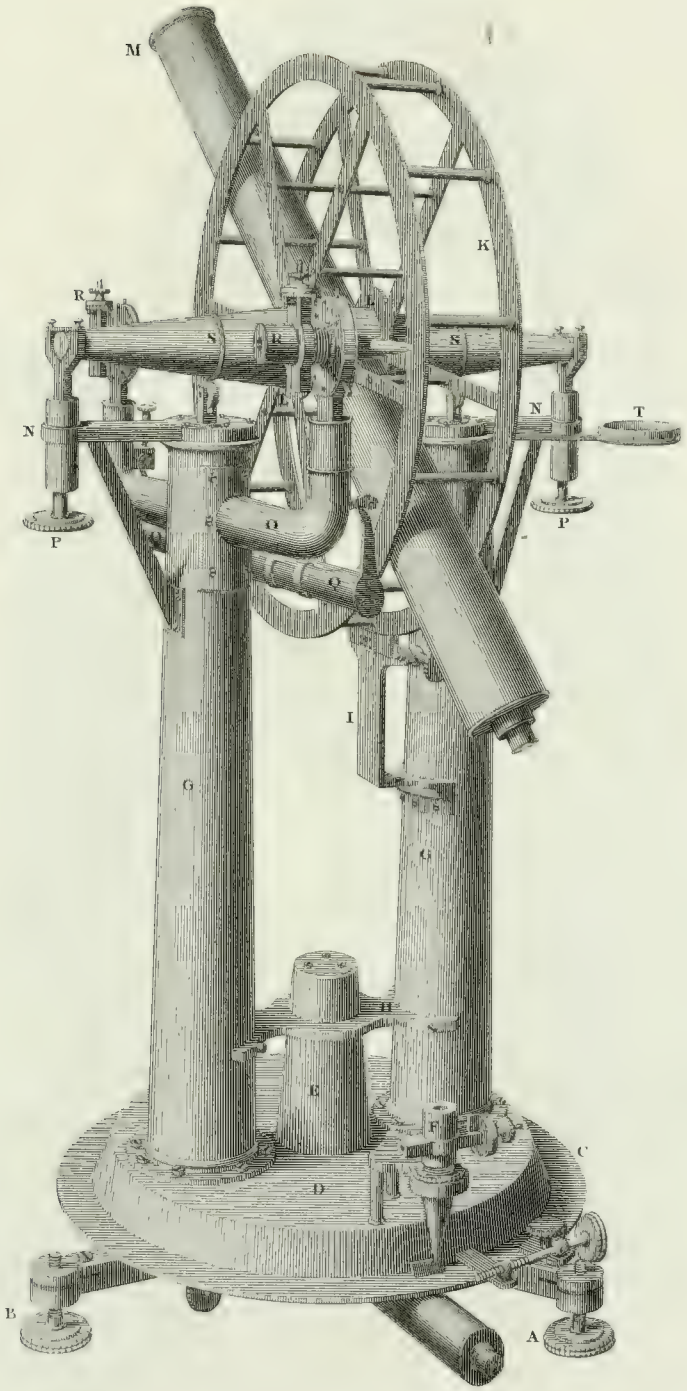
ASTRONOMICAL INSTRUMENTS.

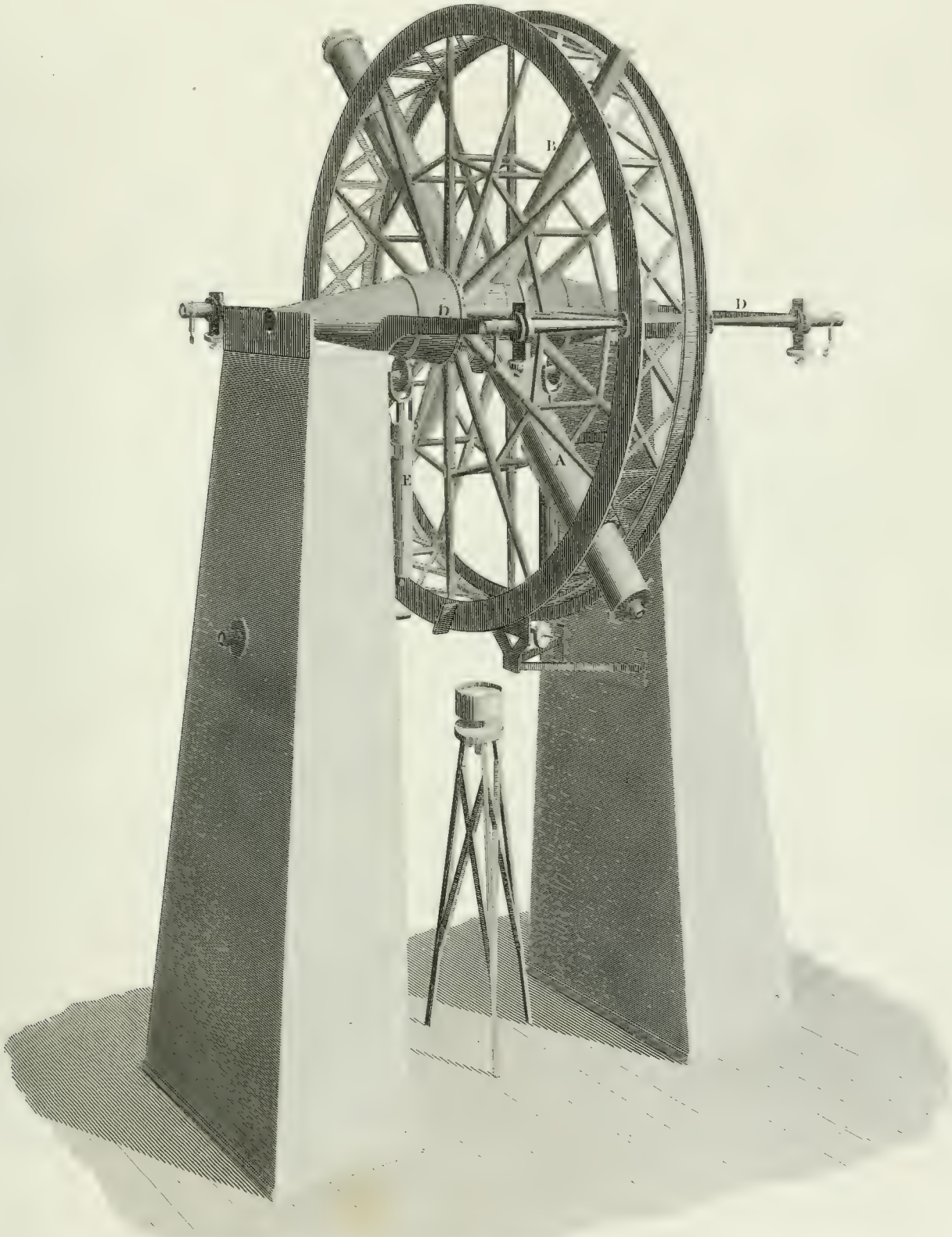
Portable CIRCLE by Troughton.



Jun. del.

Published as the Act directs, 1817, by Longman, Hurst, Rees, Orme, & Brown, Paternoster Row, London.

TROUGHTON'S MURAL CIRCLE.



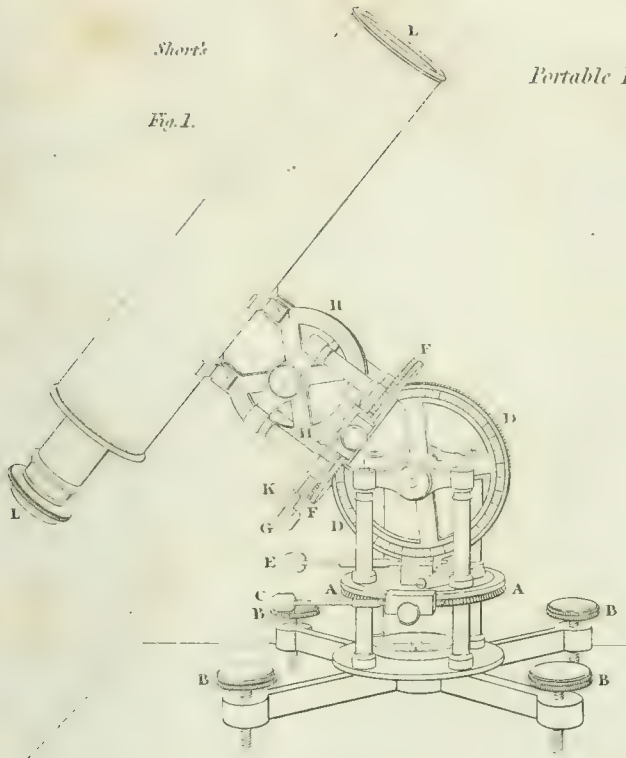
Drawn by J. Farey Junr. from the Instrument in the possession of S. Groombridge Esq

Published as the Act directs 1820 by Longman Hurst Rees Orme & Brown Paternoster Row

Portable Equatorial Instruments

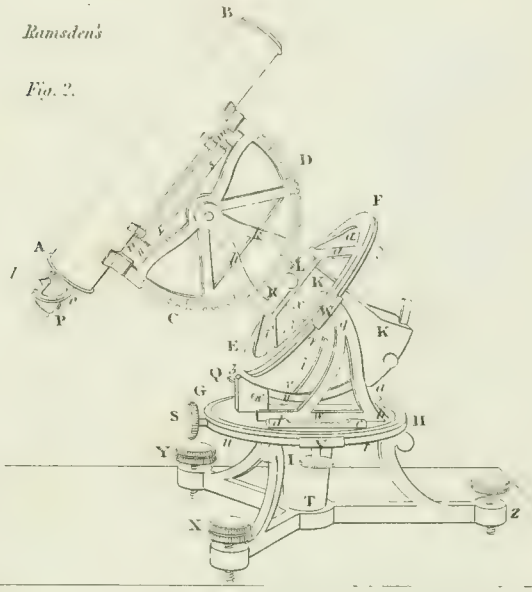
Short's

Fig. 1.



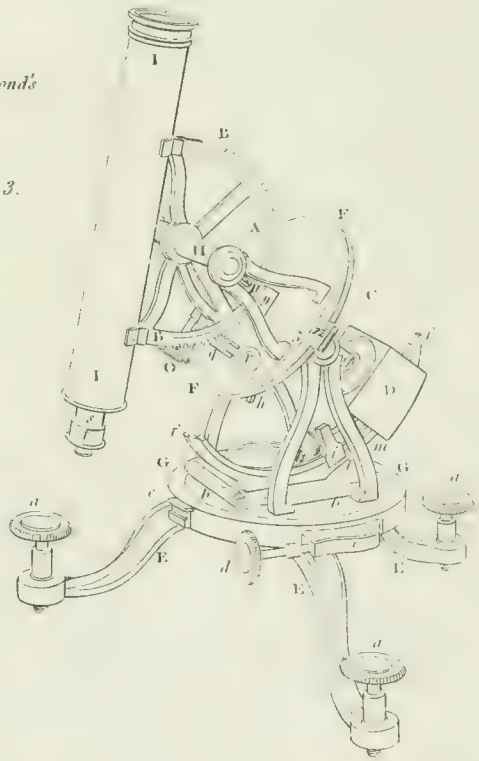
Ramsden's

Fig. 2.



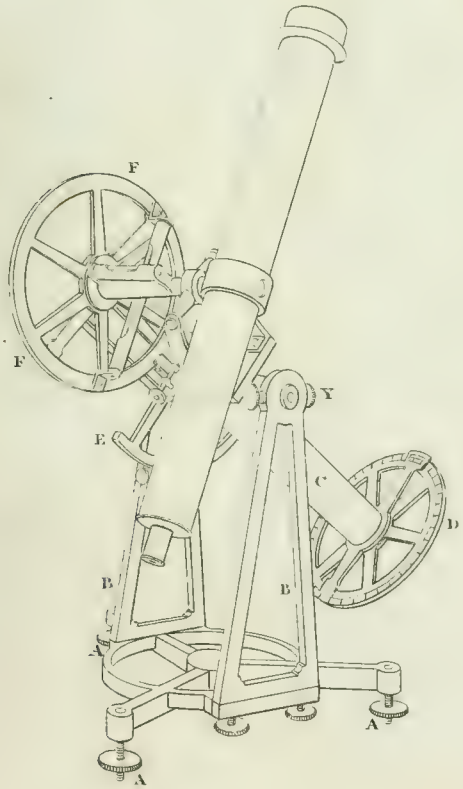
Dollond's

Fig. 3.



Enyver's

Fig. 4.



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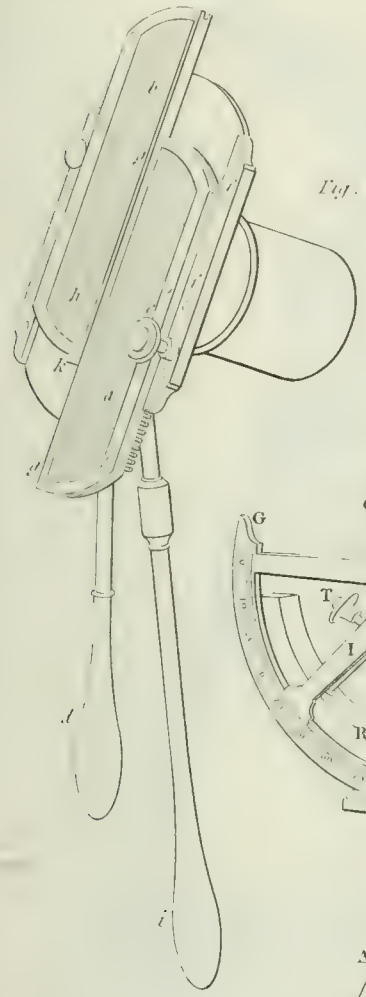
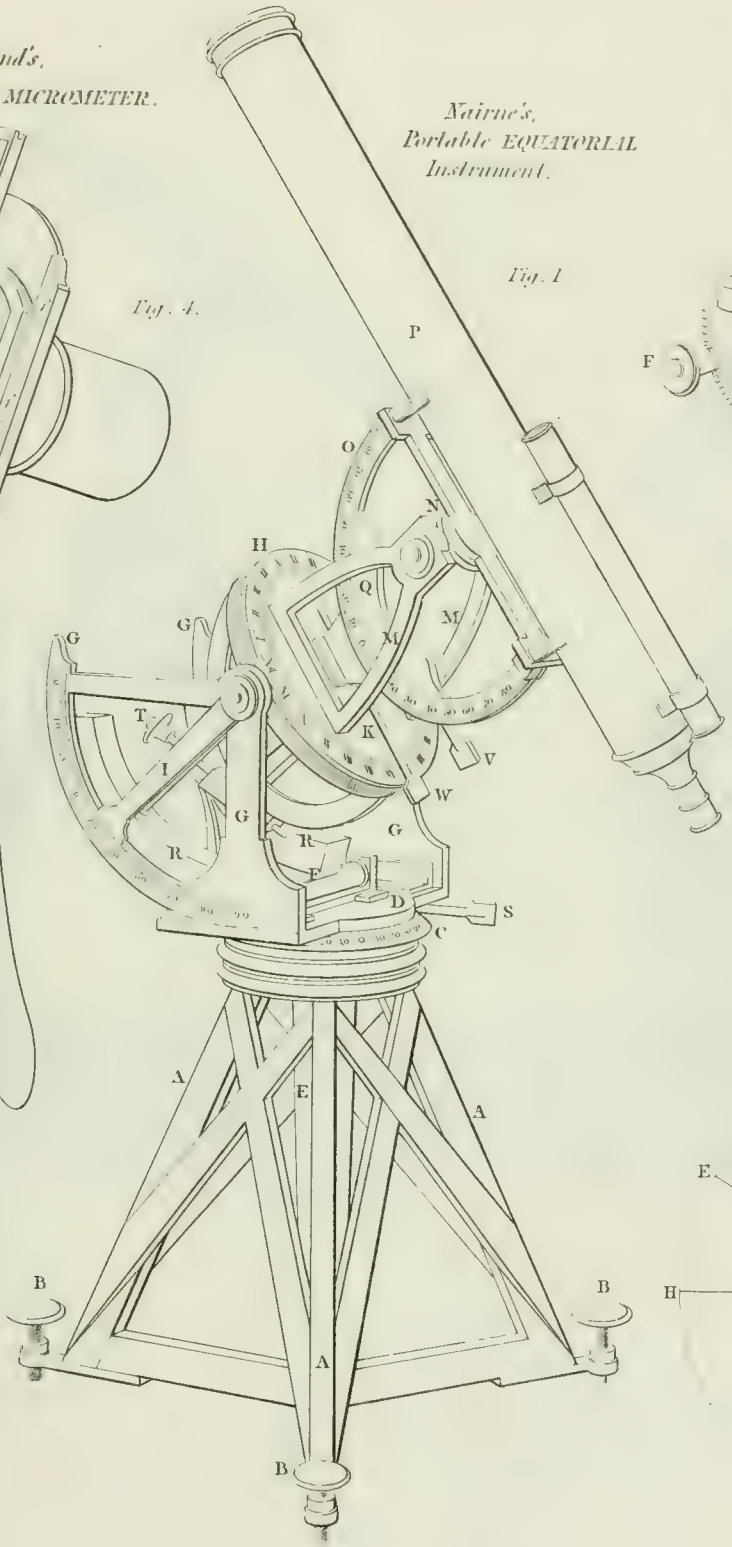
Dollond's,
OBJECT GLASS, MICROMETER.

Fig. 4.



Nairne's,
Portable EQUATORIAL
Instrument.

Fig. 1



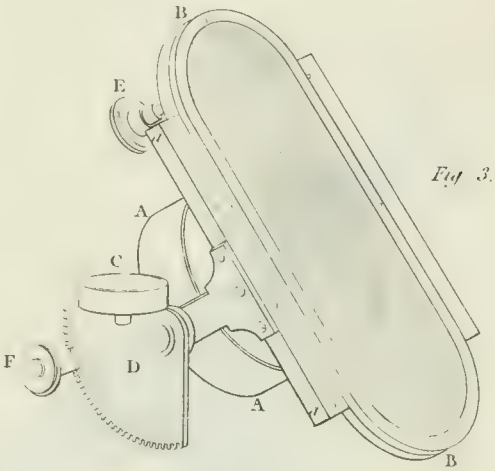
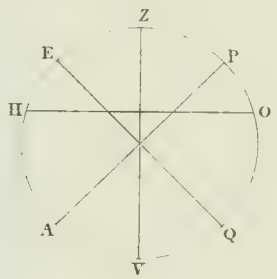


Fig. 3.

Dollond's,
REFRACTION Apparatus.

Fig. 4.



Ramsden's,
REFRACTION Apparatus.

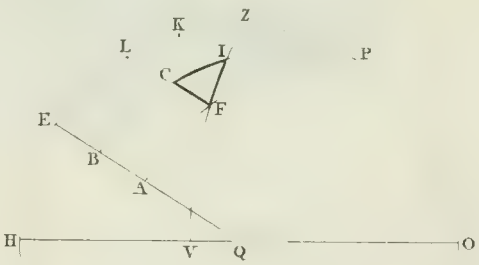
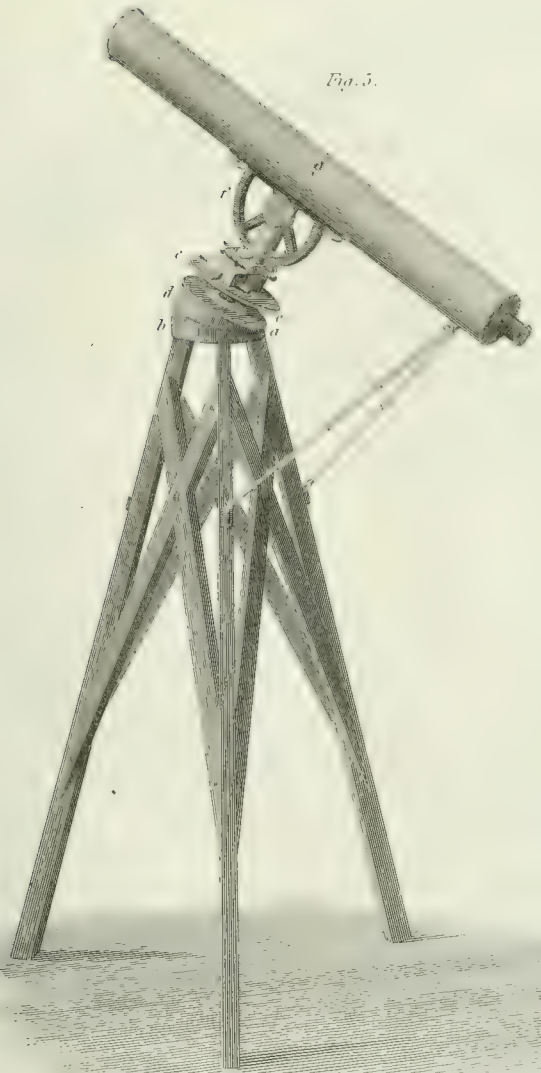


Fig. 2.

J. Farey, delin. Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry, Sc.

Equatorial Stand of a Telescope.

Fig. 5.



Mr. Graham's Equatorial Sector.

Fig. 1.

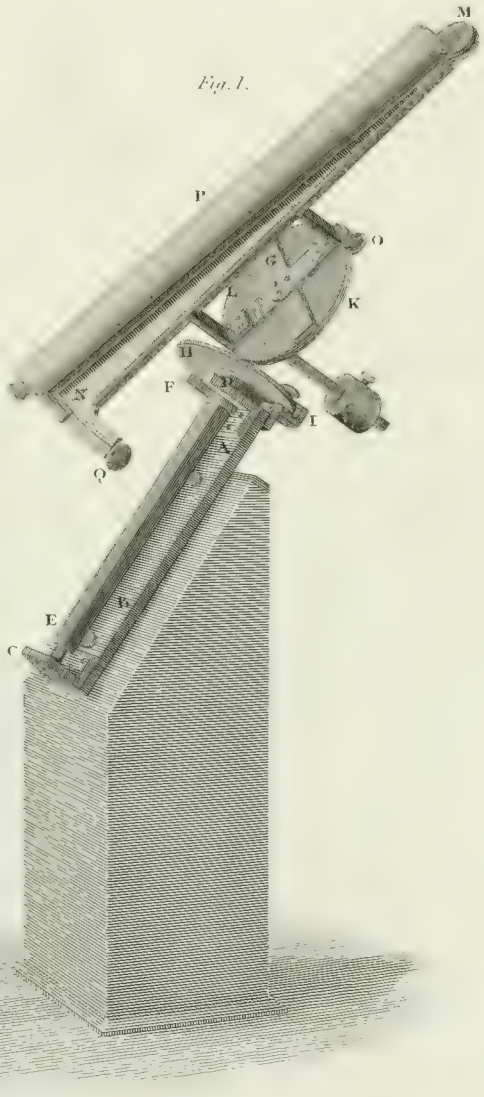


Fig. 2.

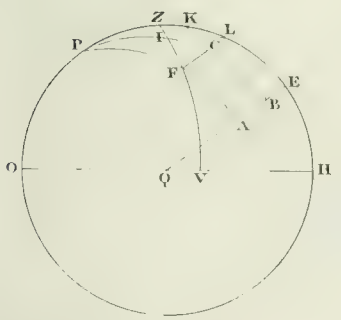


Fig. 3.

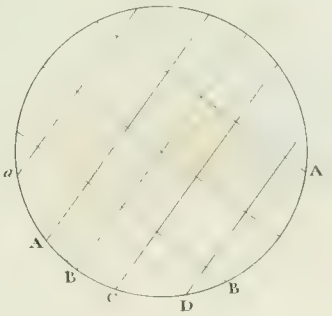
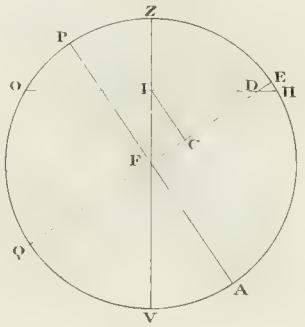


Fig. 4.



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Lowry sculp.

ASTRONOMICAL INSTRUMENTS.

Universal EQUATORIAL, Instrument by Troughton.

J. Farey Junr. del.

Published as the Act directs 1st. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry Sc.

ASTRONOMICAL INSTRUMENTS.

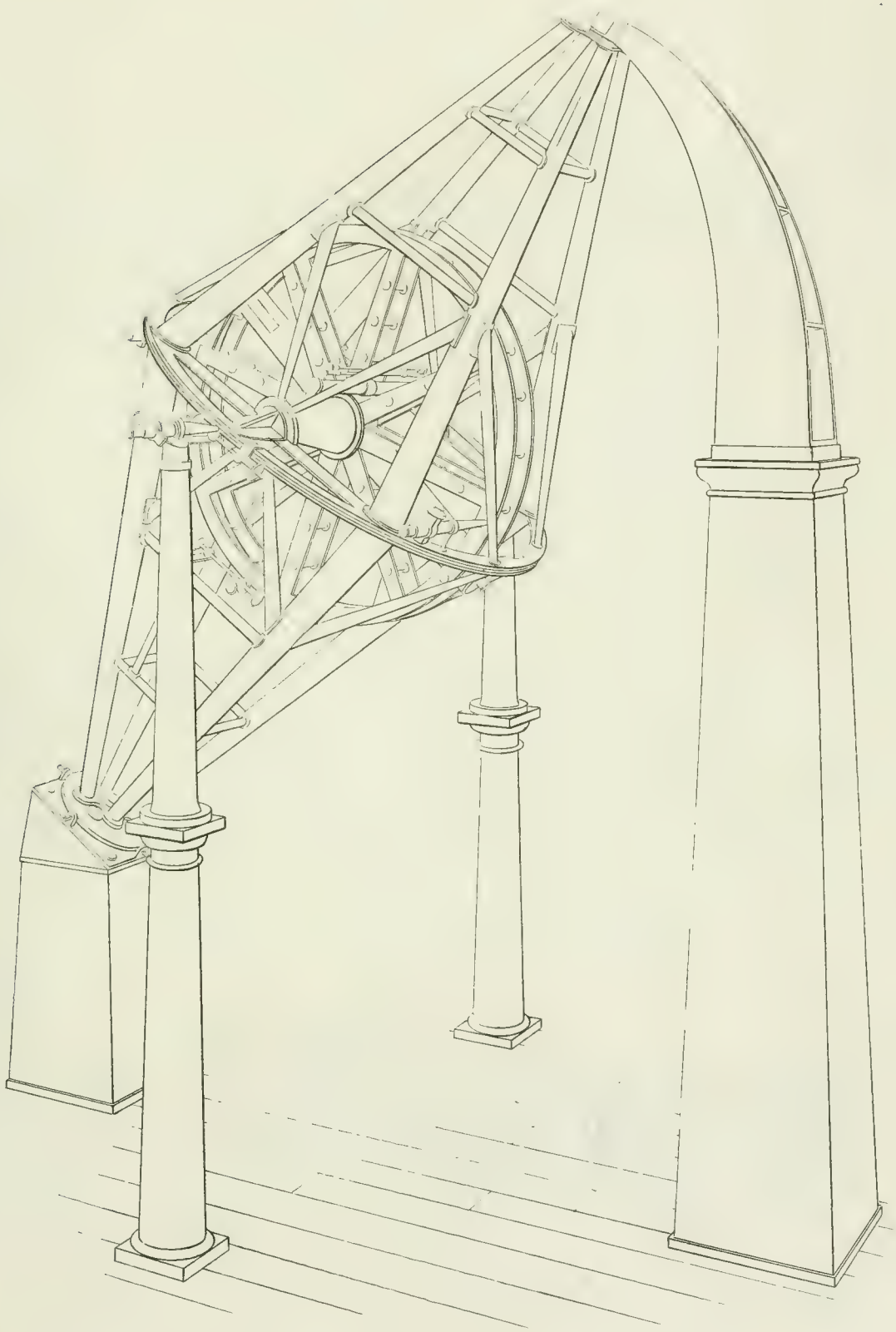
Equatorial Instrument made by Ramsden for Sir Geo.e Shuckburgh.

In viewing this picture, the eye of the Spectator should be placed at 12 inches perpendicular distance from the intersections of the lines V.V. & W.W.

Drawn by J. Farey Jun.r *Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.* *Engraved by Sid.y Hall.*

EQUATORIAL Instrument at Armagh.

made by Troughton.



J. Farey, del. Published as the Act directs, 1829, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. W. Lowry, sc.

Fig. 1.

Sisson's Equatorial Sector.

Fig. 5.

Earl of Ilay's Equal Altitude Instrument.

Fig. 4.

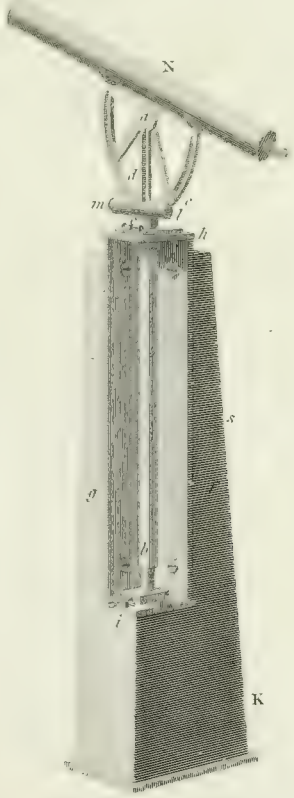
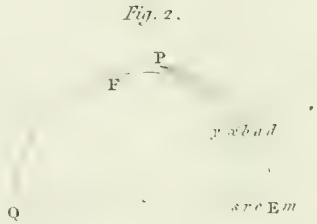
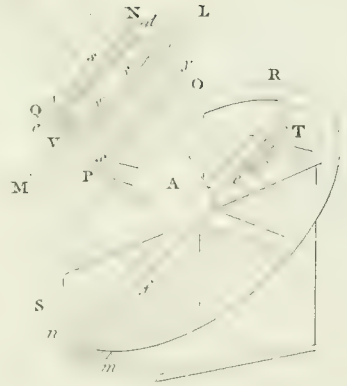


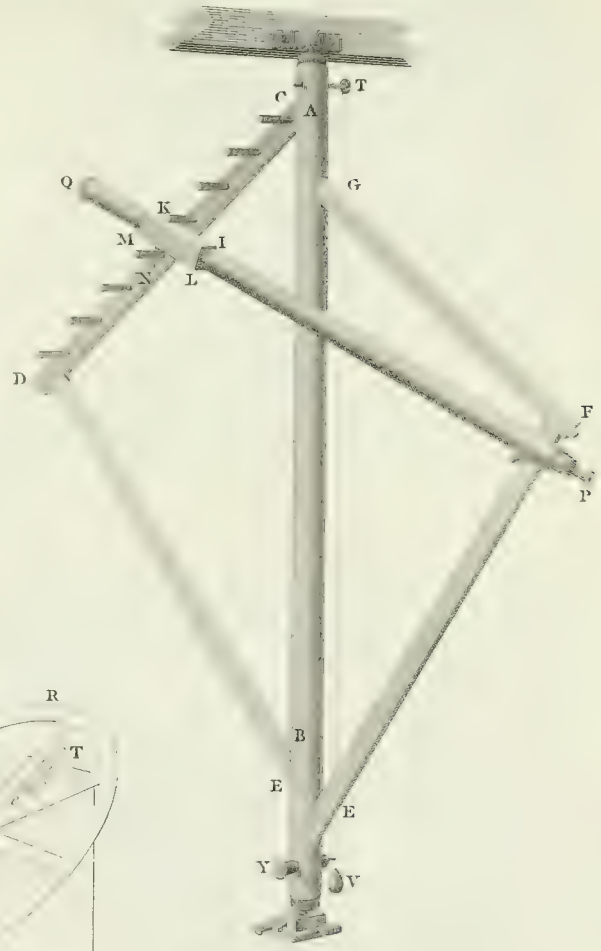
Fig. 2.





Mr. Cote's Equal Altitude Instrument.

Fig. 3.



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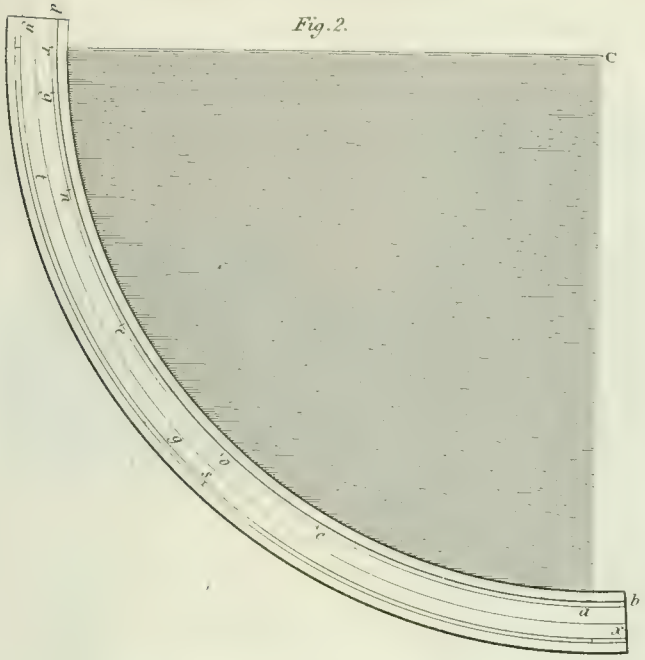
Engraved by Wilson Lowry.

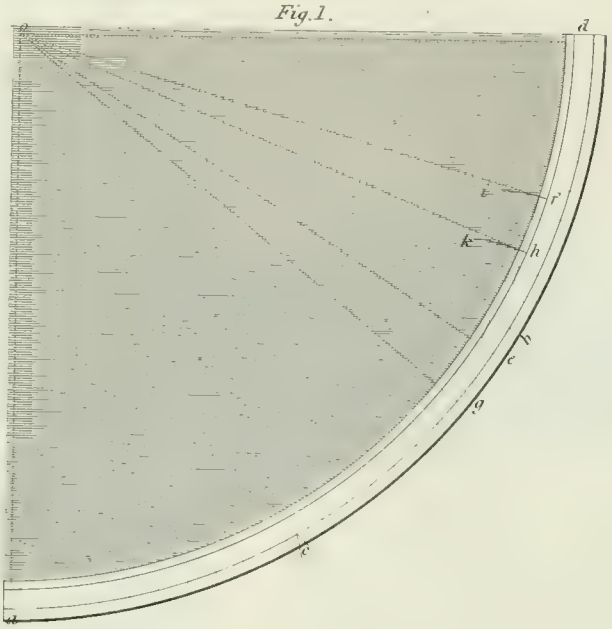
Division of Bird's Quadrant.

Fig. 2.



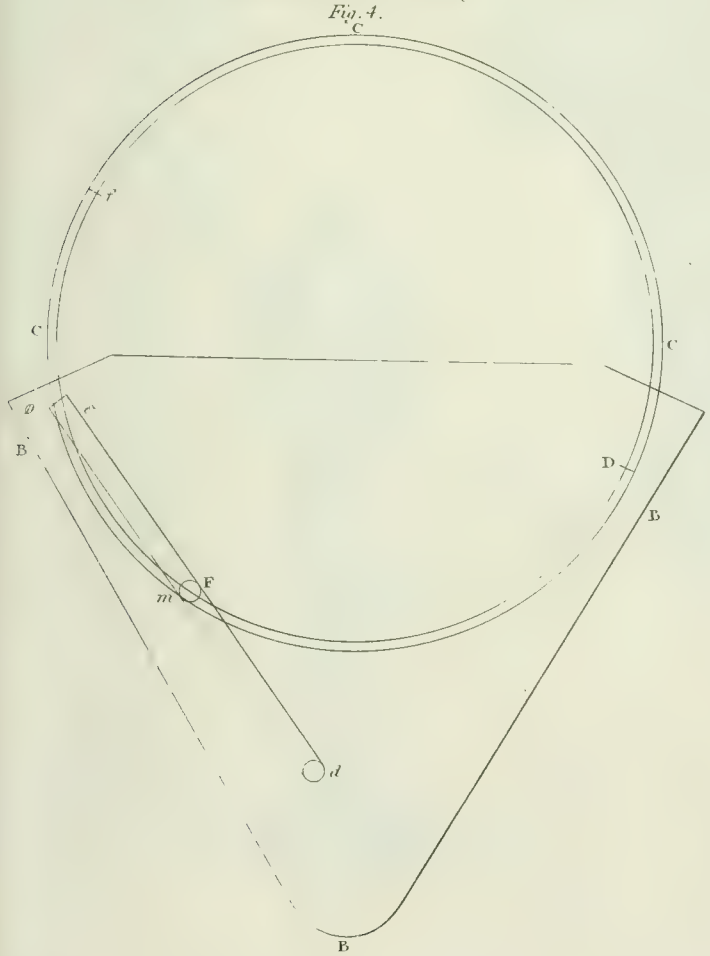
Division of Graham's Quadrant.

Fig. 1.



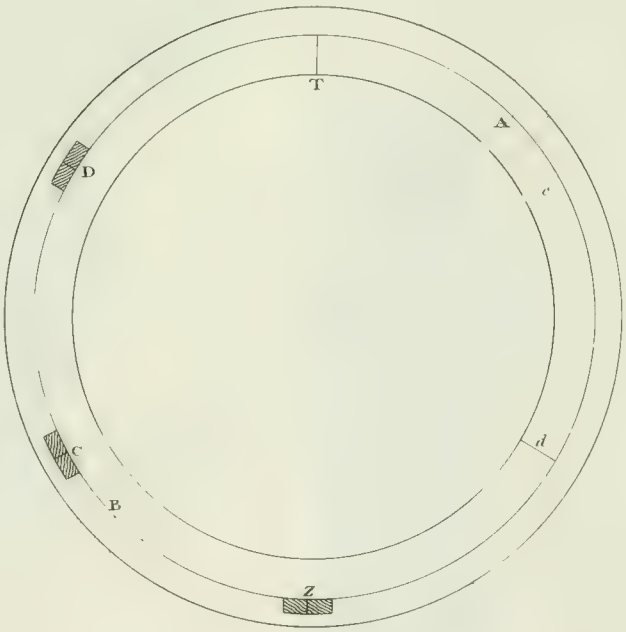
Mr. Cavendish's Dividing.

Fig. 4.



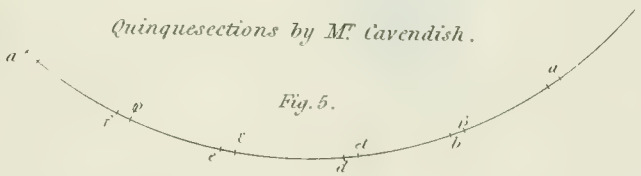
duc de Chaulne's Dividing.

Fig. 3.



Quinquesections by Mr. Cavendish.

Fig. 5.



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Lowry sculp.

GRADUATION.

Troughton's method of Graduating a Circle.

Fig. 1.

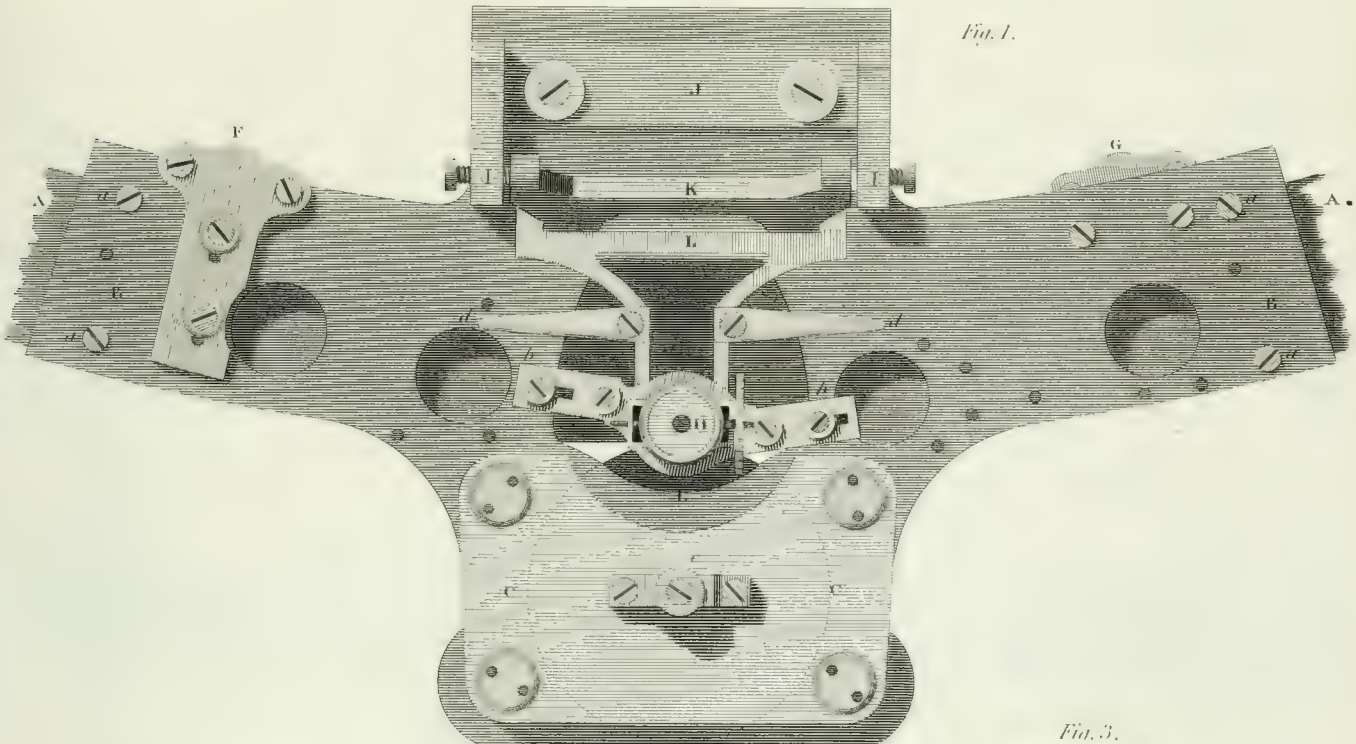


Fig. 2.

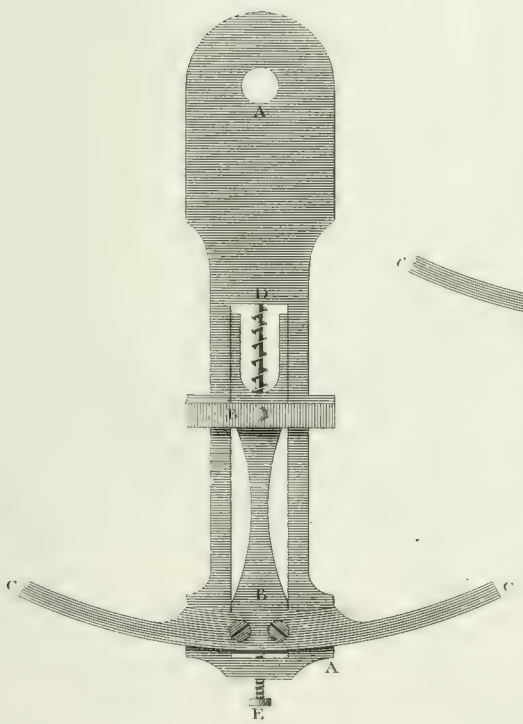
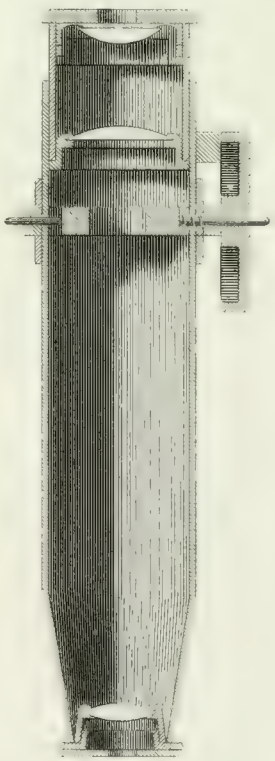


Fig. 3.



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ASTRONOMICAL INSTRUMENTS.

PLATE XV.

Troughton's method of Graduating a Circle.

Fig. 4.

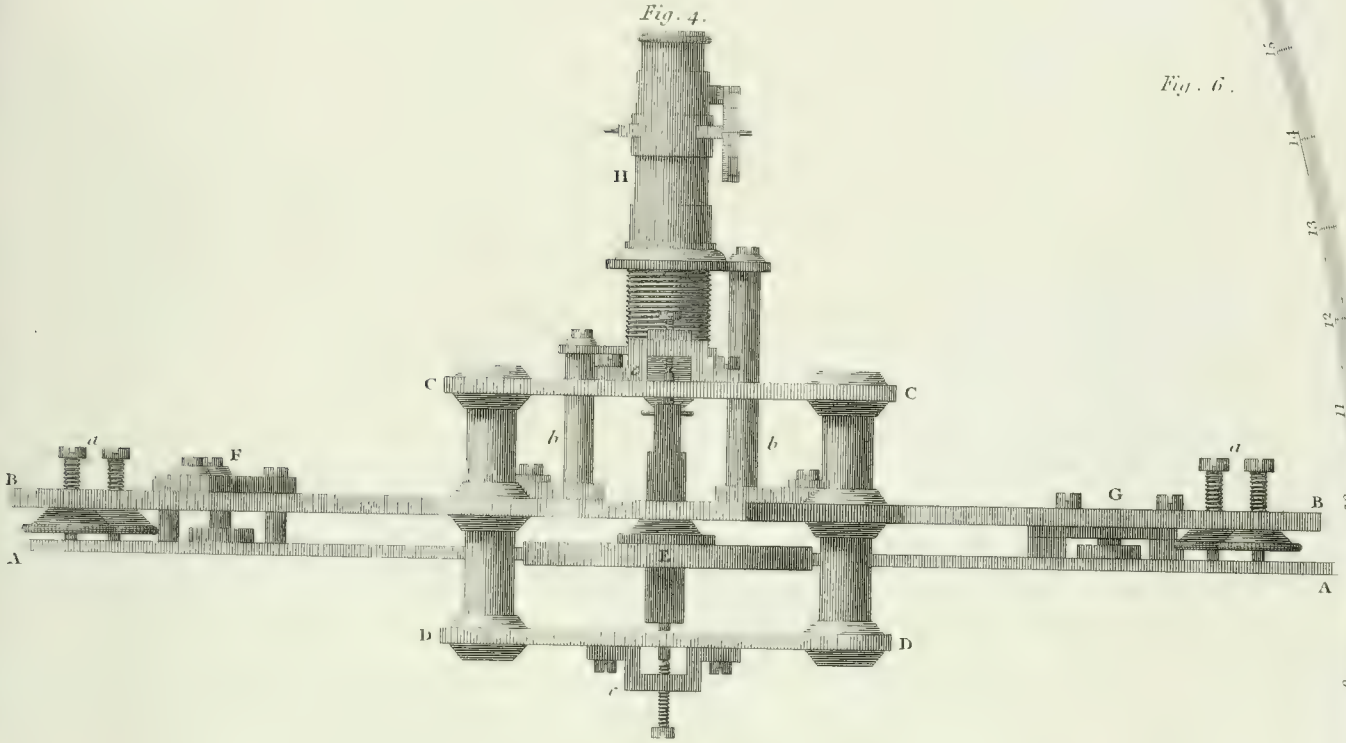

Fig. 6.

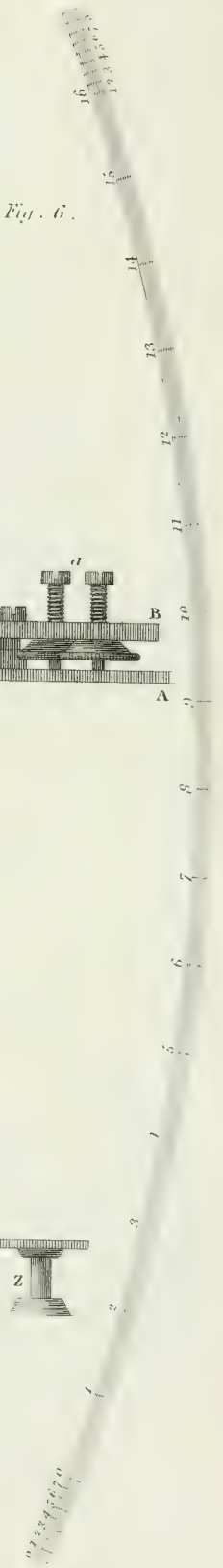

Fig. 5.

J. Farey Junr. delin.

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ASTRONOMICAL INSTRUMENTS.

GRADUATION.

by Clavius

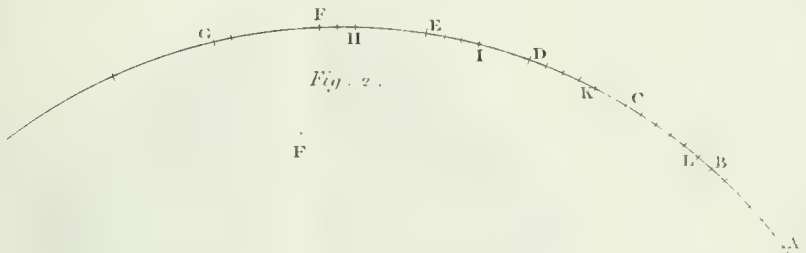


Fig. 2.

Bisection of an Arc.

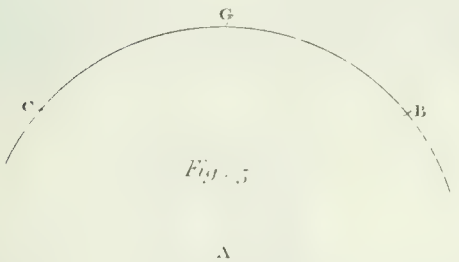


Fig. 3

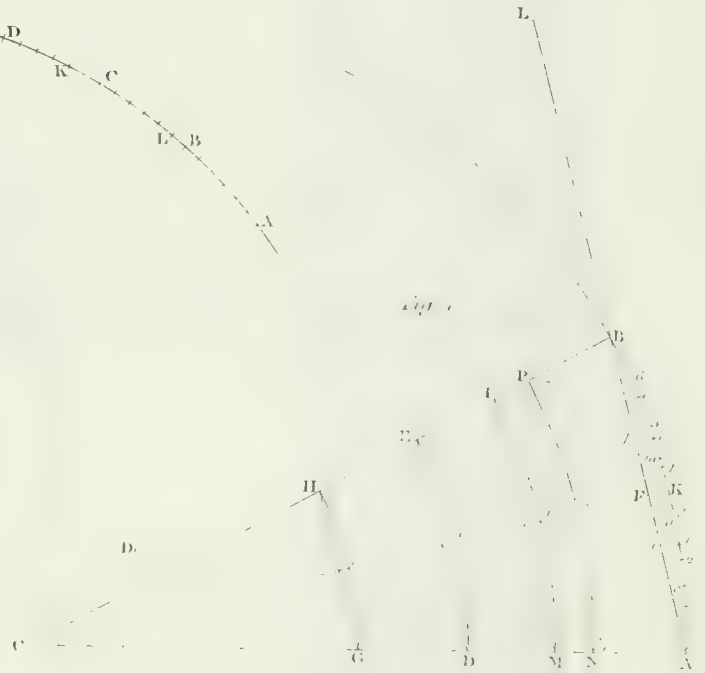
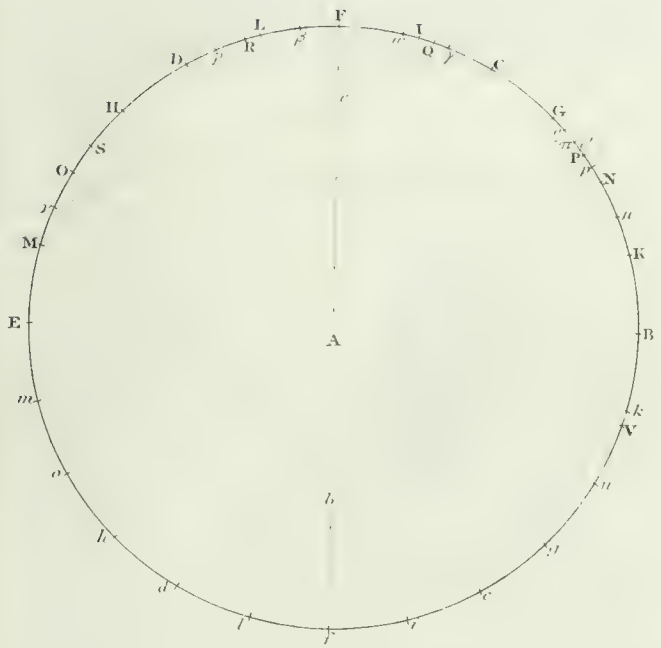
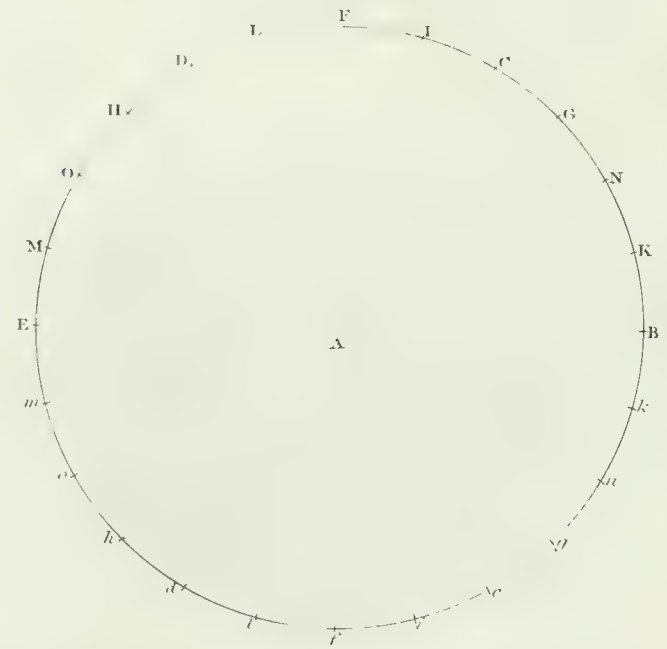


Fig. 4.

by Mascheroni





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ROTATIVE ROOF.

Rev.d W. Pearson's.

Fig. 5.

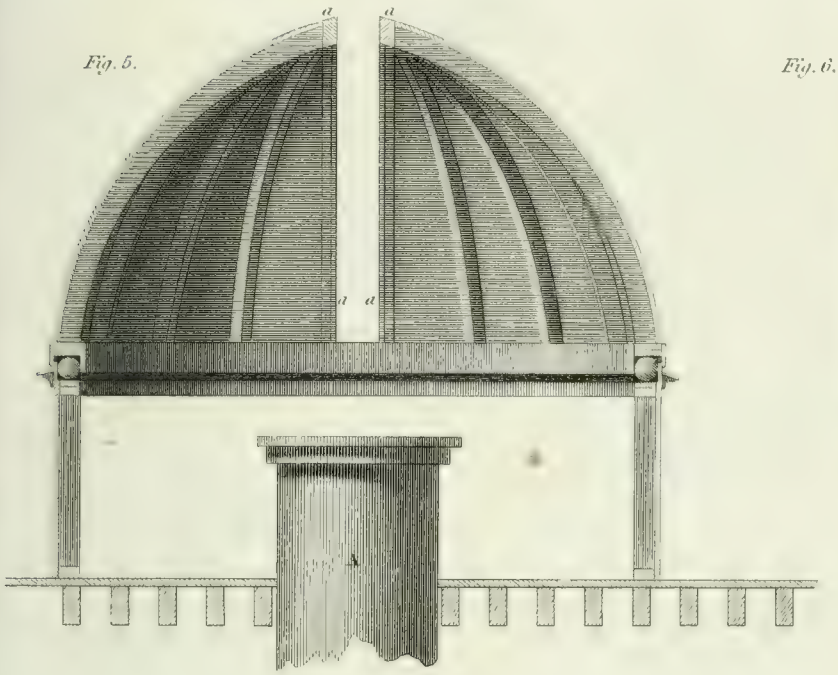


Fig. 6.

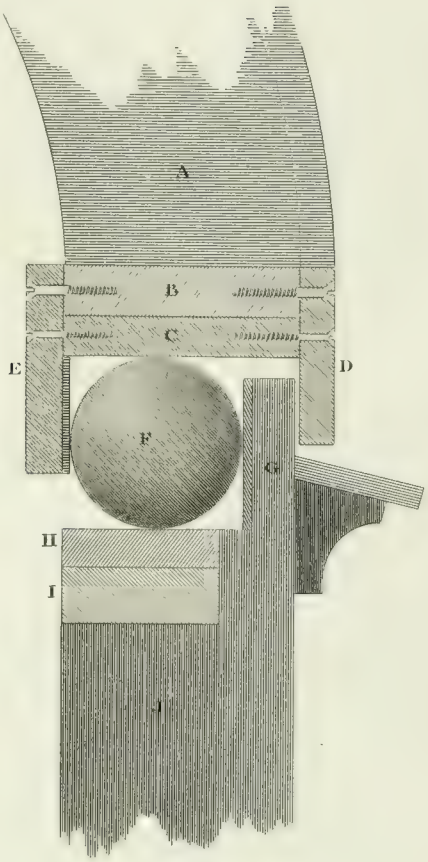
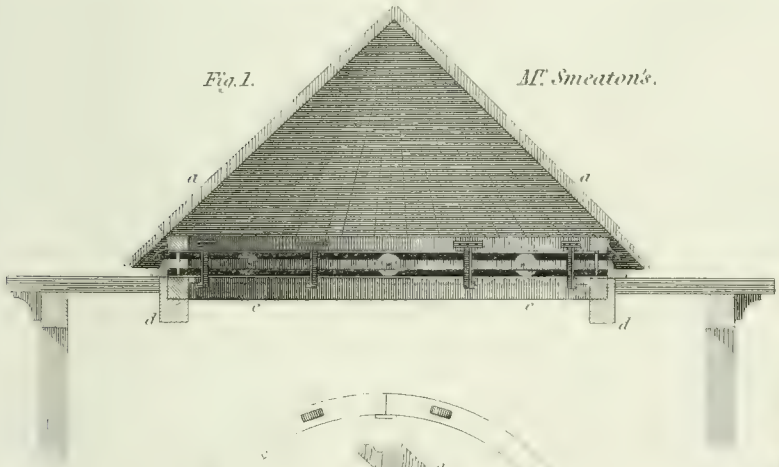


Fig. 1. Mr. Smeaton's.



Section of the Lids.

Fig. 3.

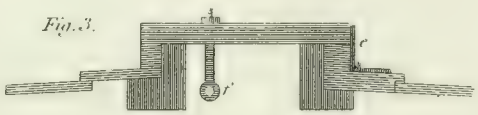
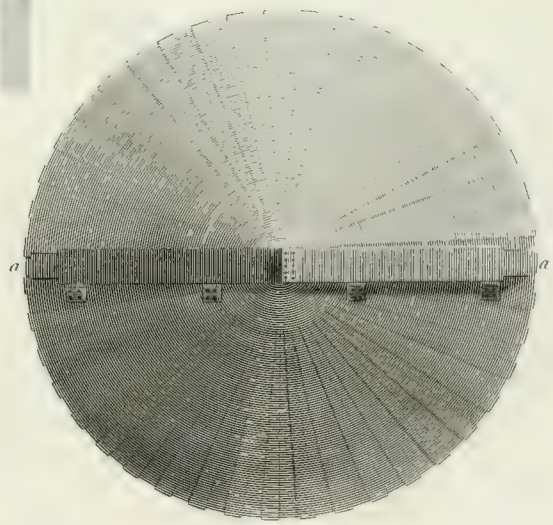


Fig. 2.



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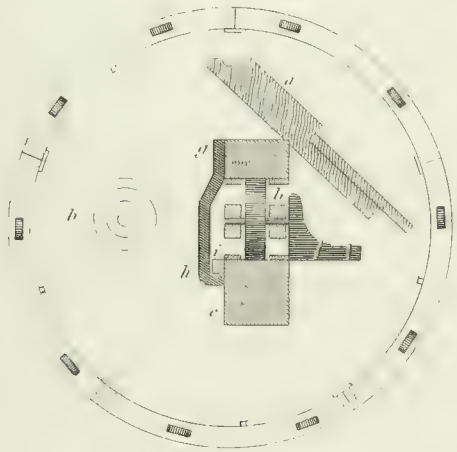

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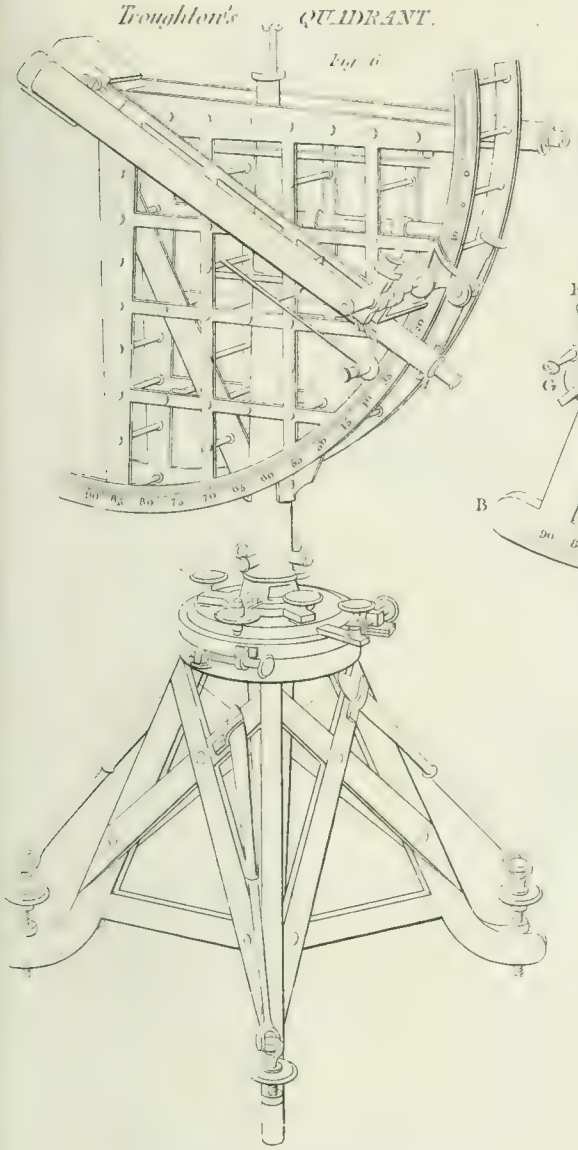
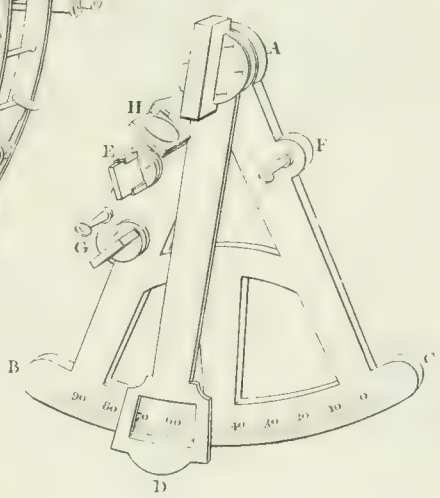
Troughton's QUADRANT.

Fig. 6



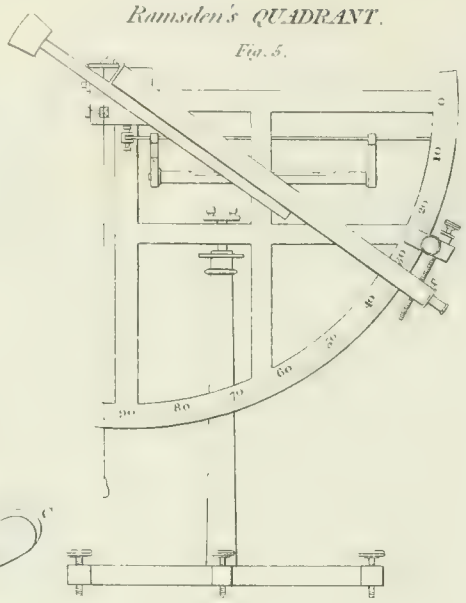
Hadley's OCTANT

Fig. 1



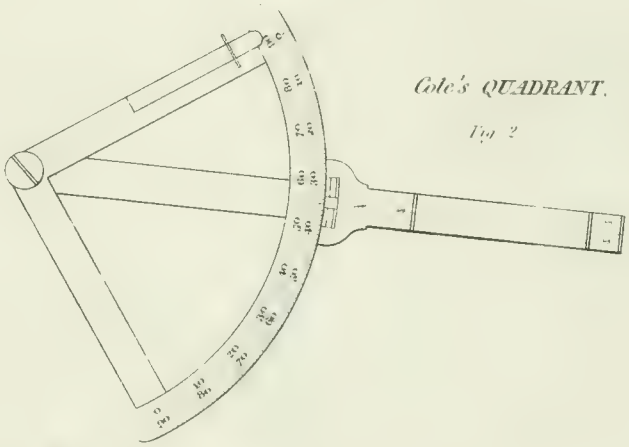
Ramsden's QUADRANT.

Fig. 5.



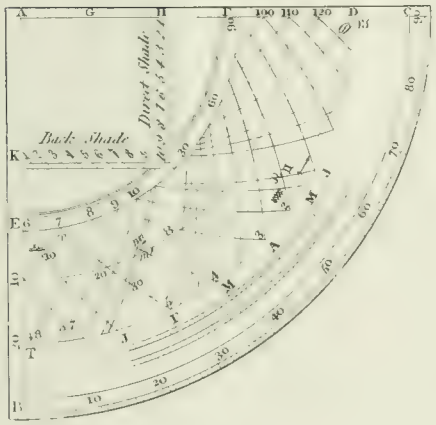
Cole's QUADRANT.

Fig. 2



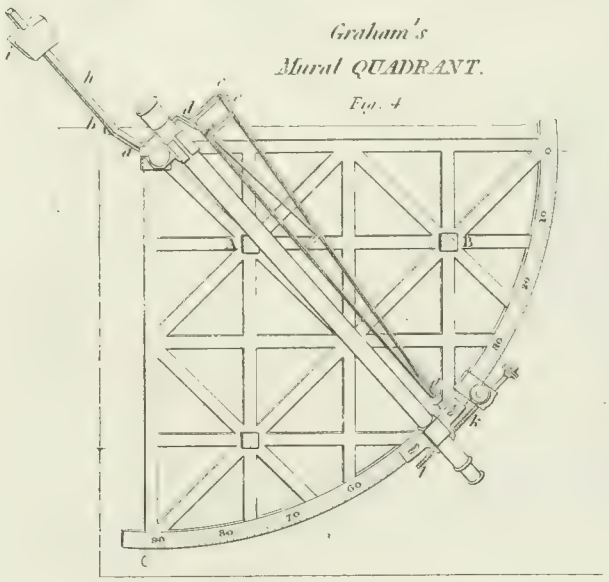
Gunter's QUADRANT.

Fig. 3.



Graham's Mural QUADRANT.

Fig. 4



ASTRONOMICAL INSTRUMENTS.

Theory of the refracting **TELESCOPE**, *and compound* **MICROSCOPE**.

PLATE XXIV.

Fig. 1.

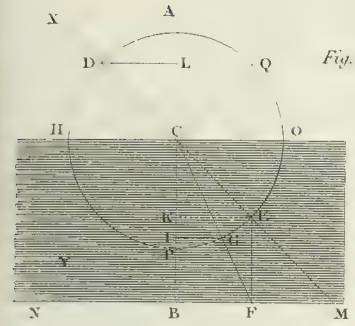


Fig. 2.

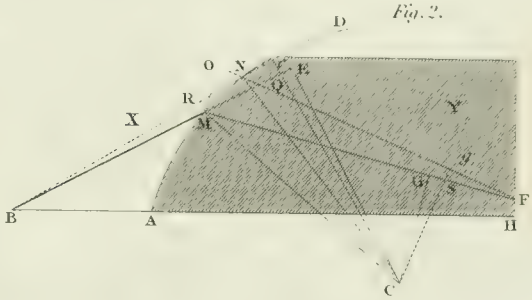


Fig. 3.

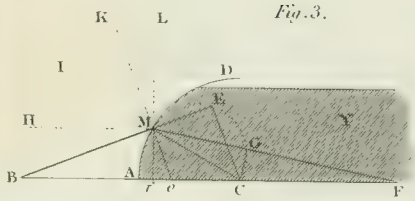


Fig. 4.

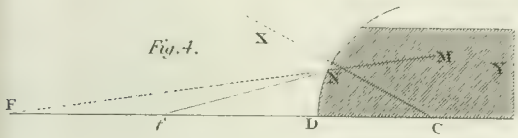


Fig. 5.

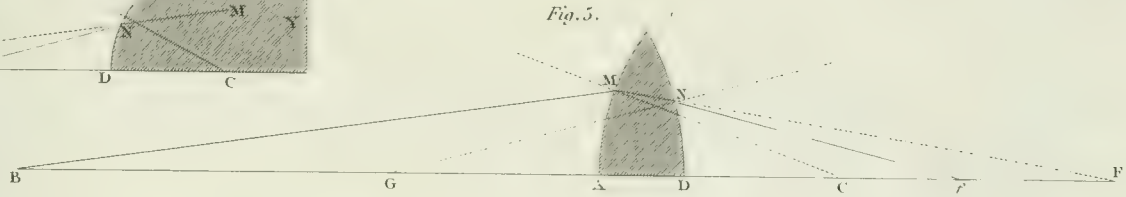
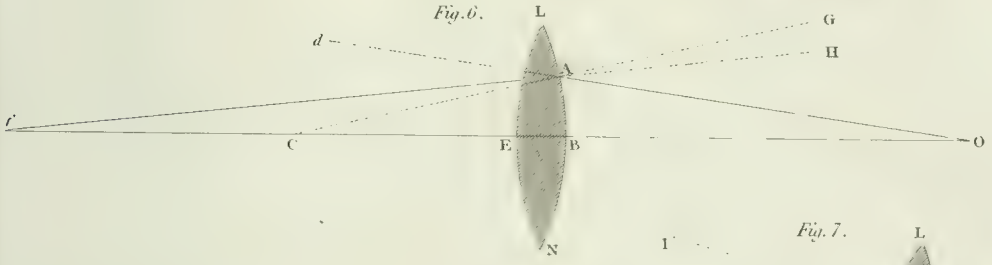


Fig. 6.



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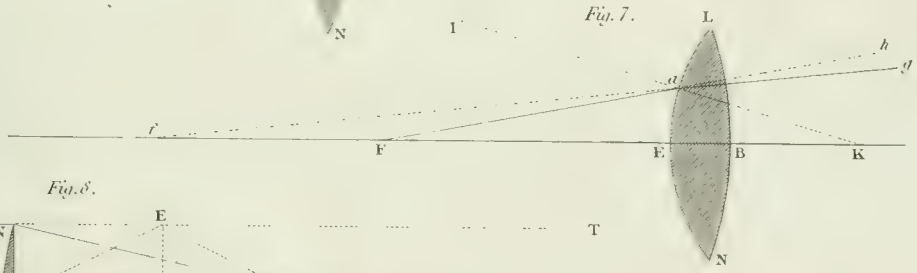

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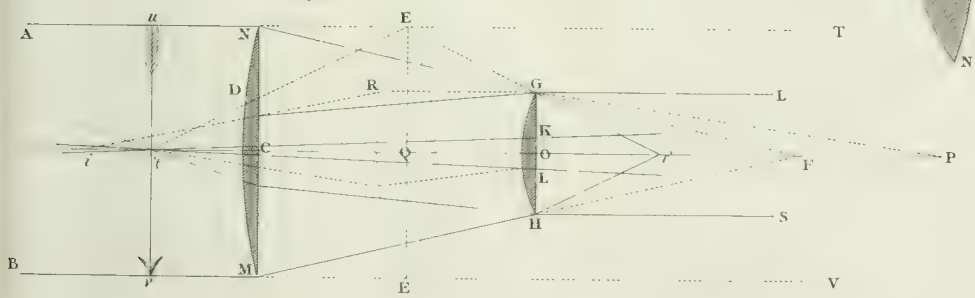

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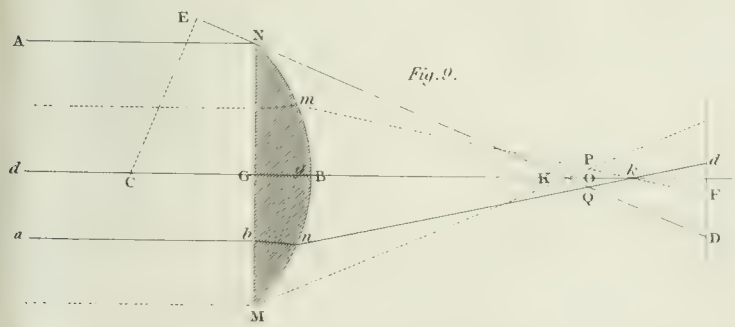

Fig. 10.

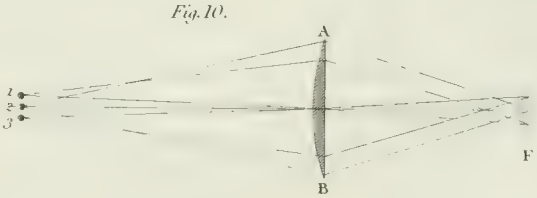

Fig. 11.

Fairey del.

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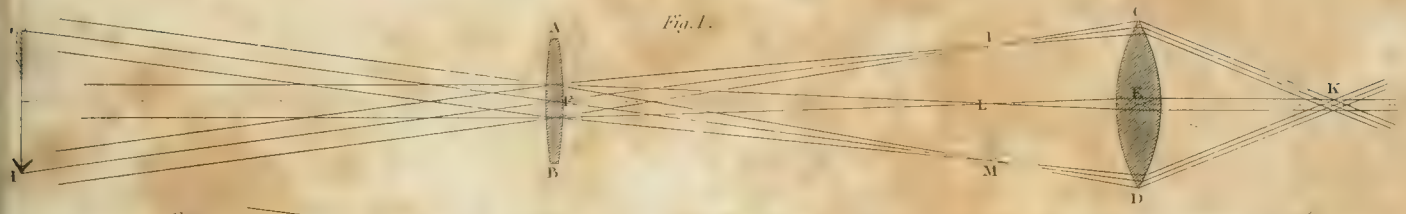
Lowry sculp.

ASTRONOMICAL INSTRUMENTS.

The Theory of refracting **TELESCOPES**, *and of the compound* **MICROSCOPE**.

Fig. 1.



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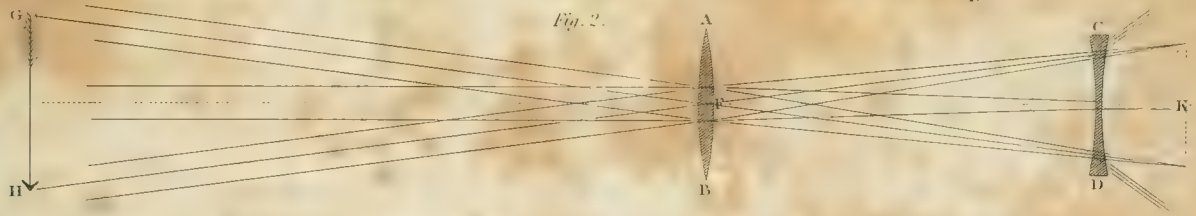

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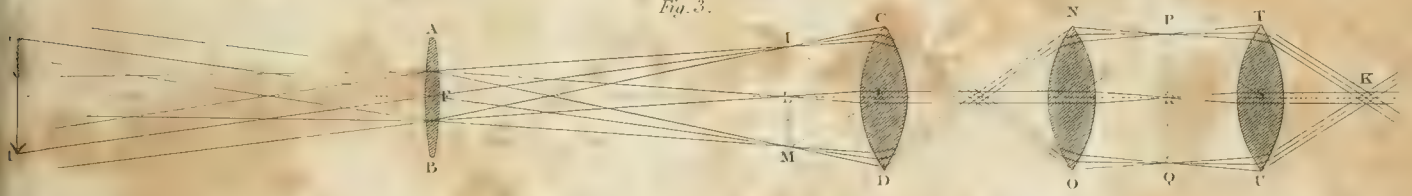

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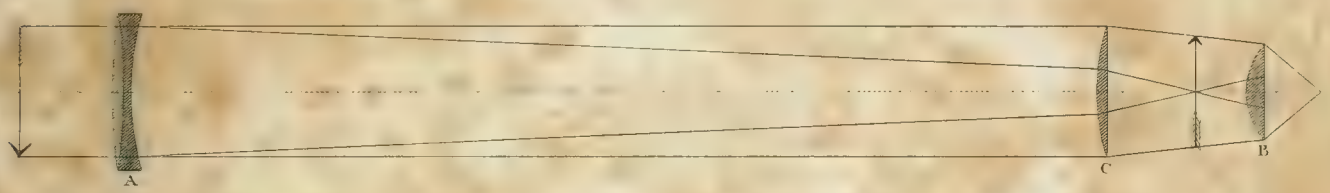

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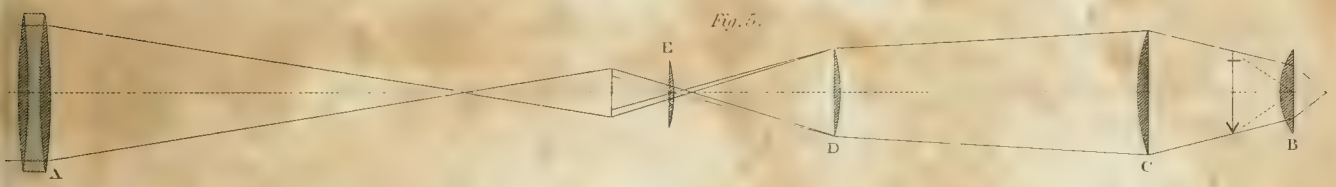

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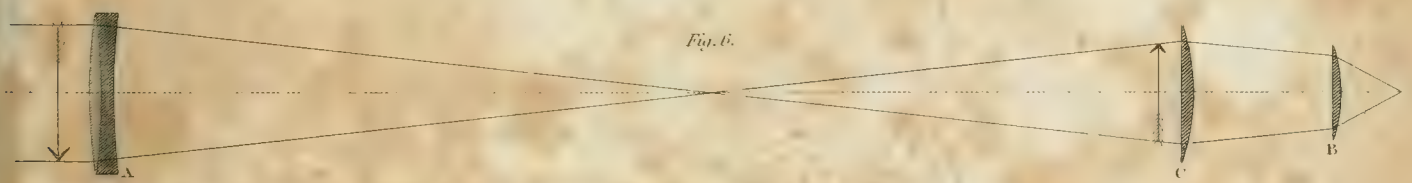

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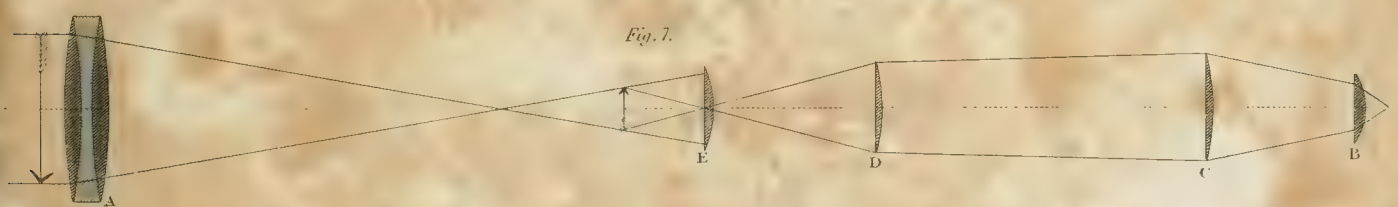

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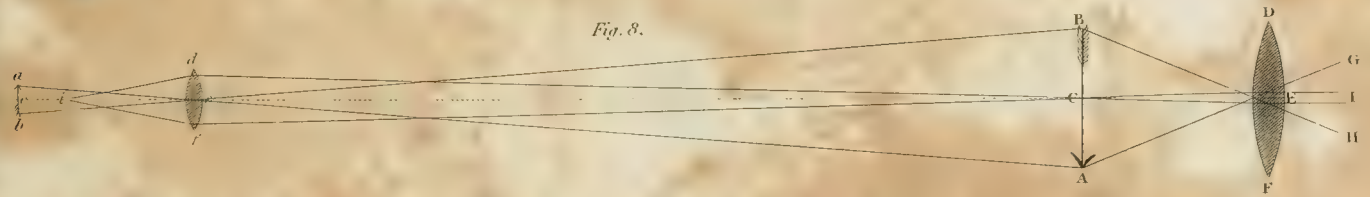

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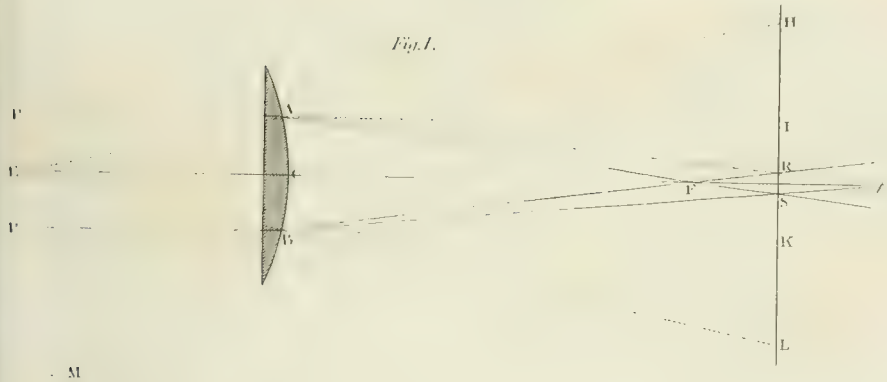
ASTRONOMICAL INSTRUMENTS.

Theory of the **TELESCOPE** *with respect to aberrations &c.*

Fig. 1.



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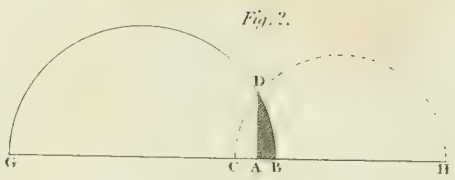

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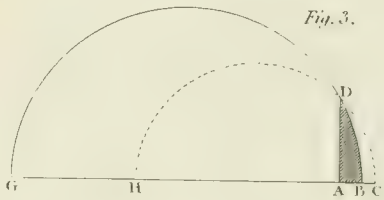

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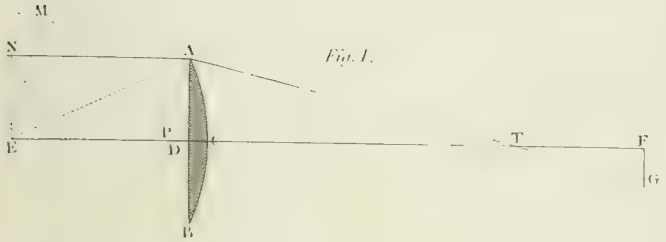

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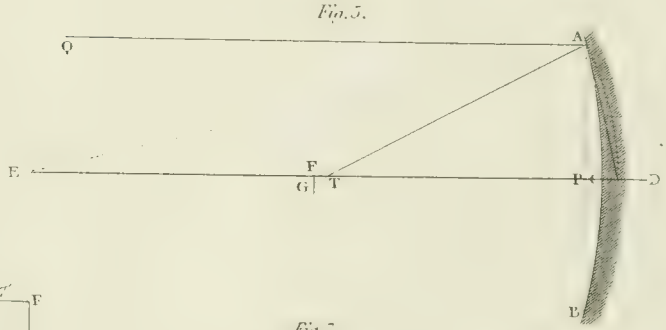

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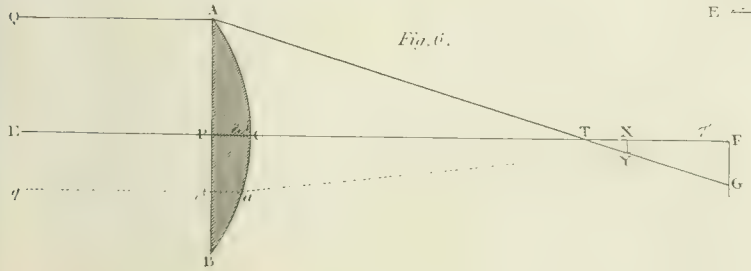

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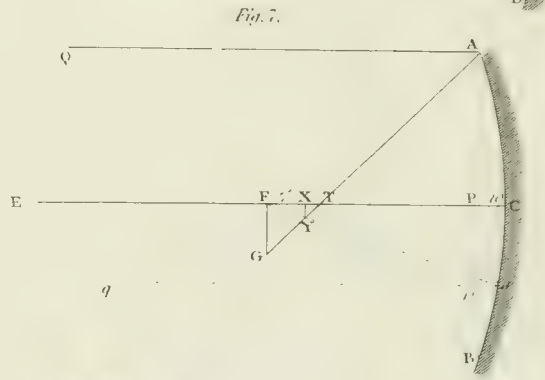

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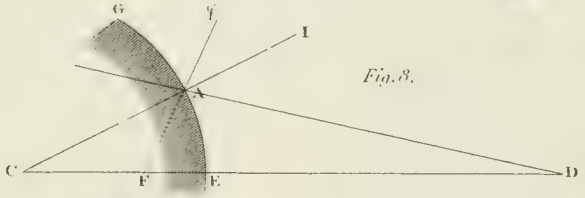

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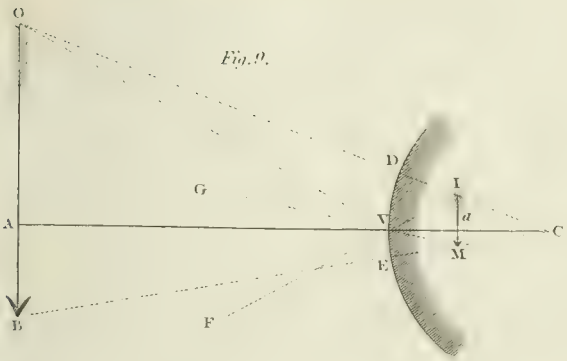
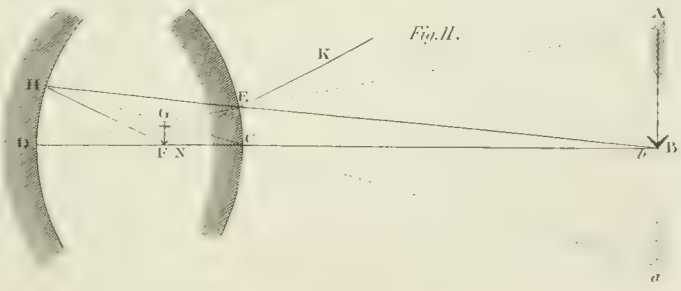


Fig. 10.

Fig. 11.



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ASTRONOMICAL INSTRUMENTS.

PLATE XVIII

Theory of Reflecting TELESCOPES.

Fig 1

Fig 2.

Fig 3.

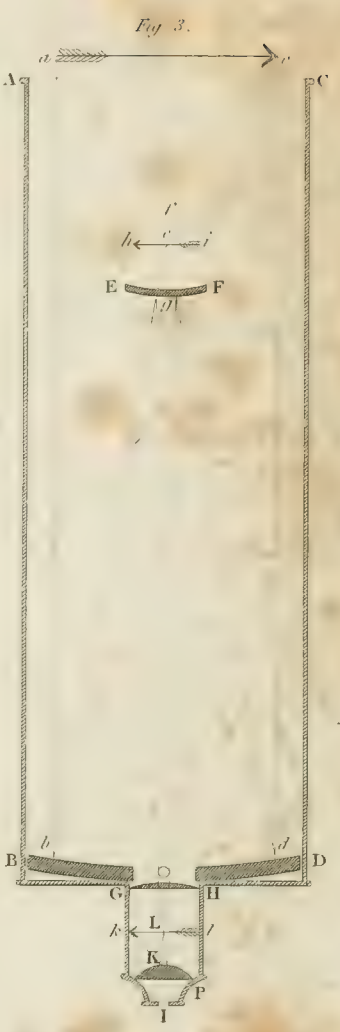


Fig 4

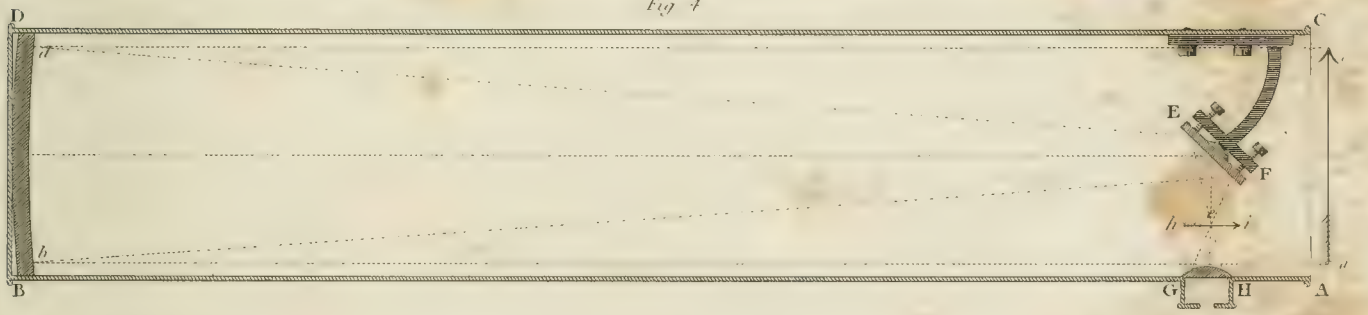
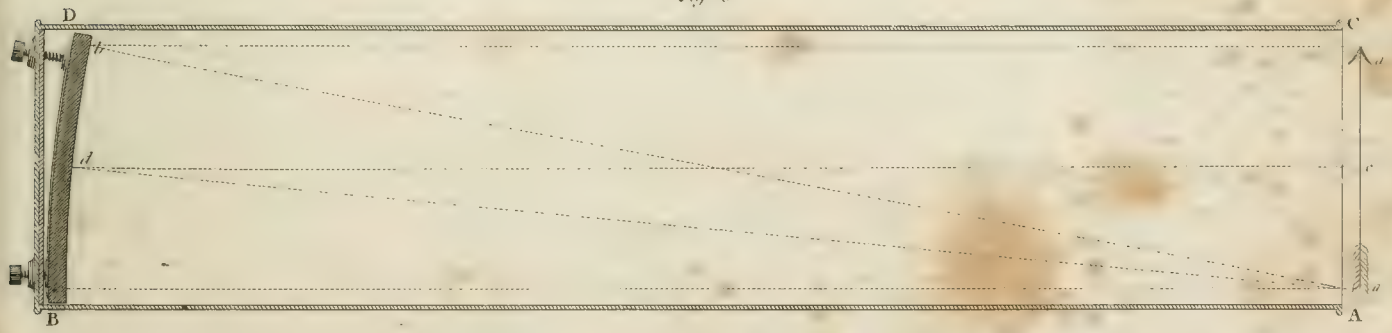


Fig 5



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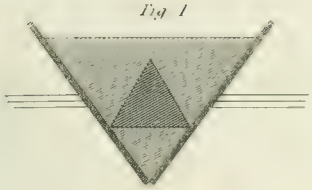
ASTRONOMICAL INSTRUMENTS.

Principles of Achromatic TELESCOPES.

Fig. 1



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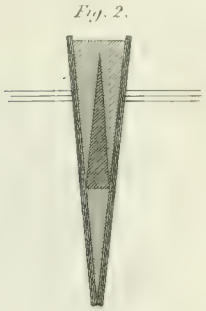

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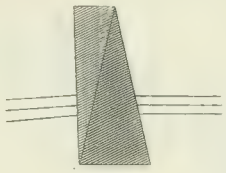


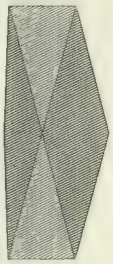
Fig. 4.

Fig. 5.

Fig. 6

Fig. 7.

Fig. 8.



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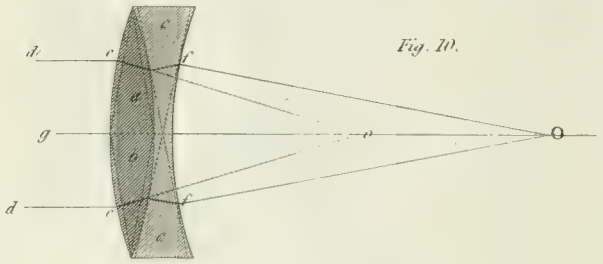


Fig. 9

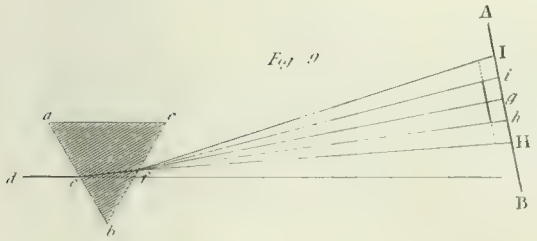


Fig. 11.

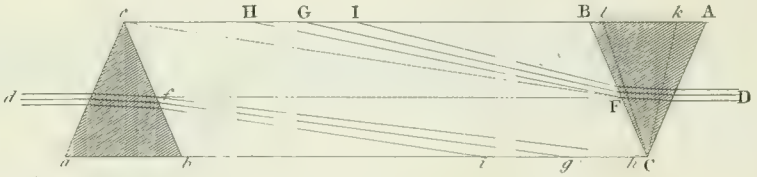


Fig. 12.

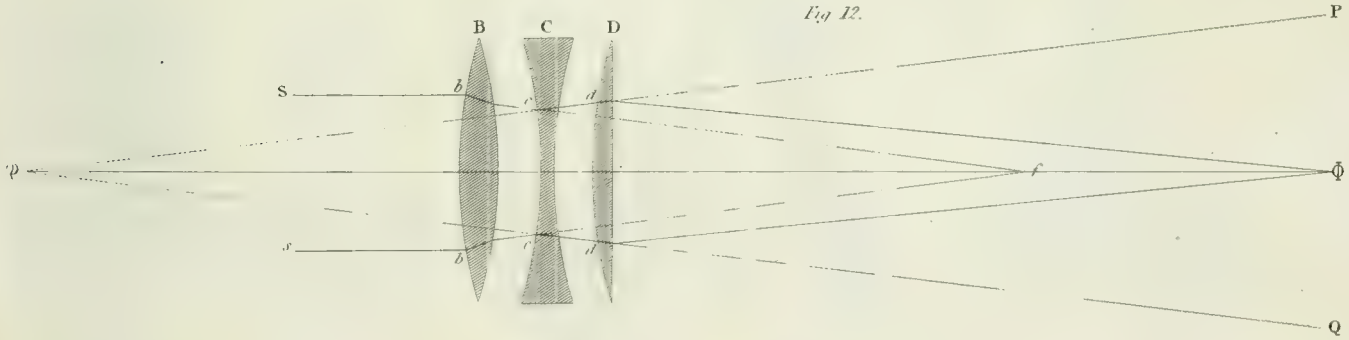


Fig. 13.
(Negative)

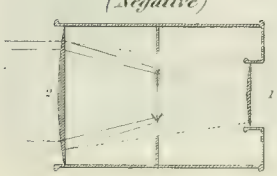


Fig. 14
(Positive)

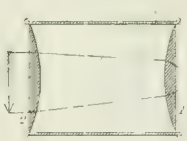


Fig. 15.
(for Microscopes)

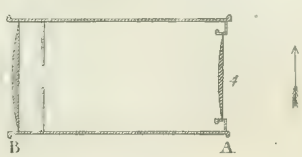
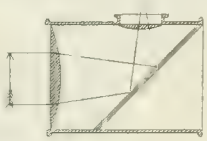


Fig. 15.
(Diagonal eye piece for Telescopes.)



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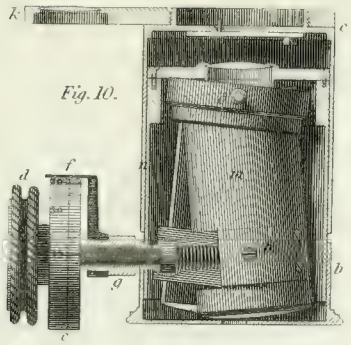
ASTRONOMICAL INSTRUMENTS.

ACHROMATIC TELESCOPES and DYNAMETERS.

Fig. 4.



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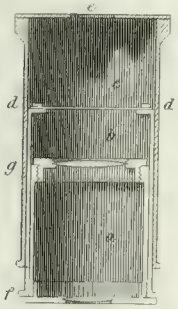

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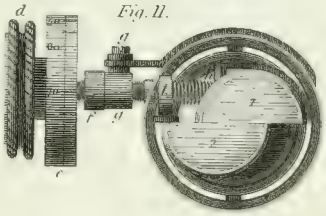

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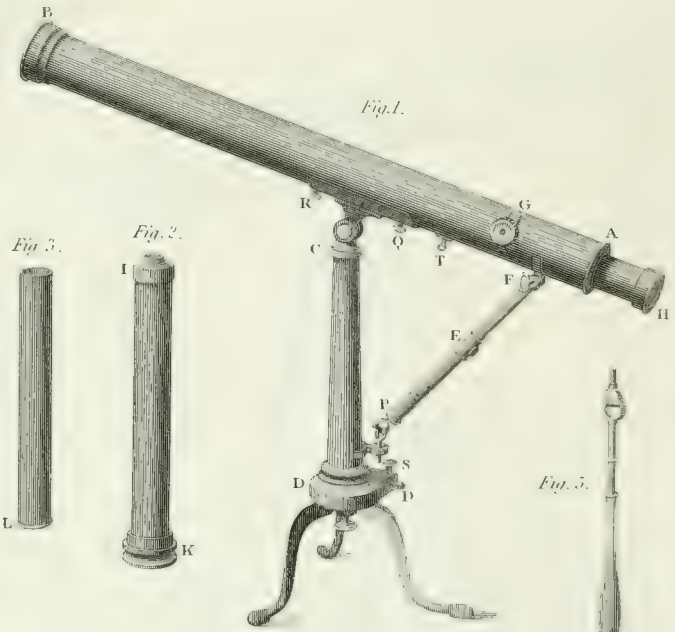

Fig. 1.

Fig. 3.

Fig. 2.

Fig. 5.

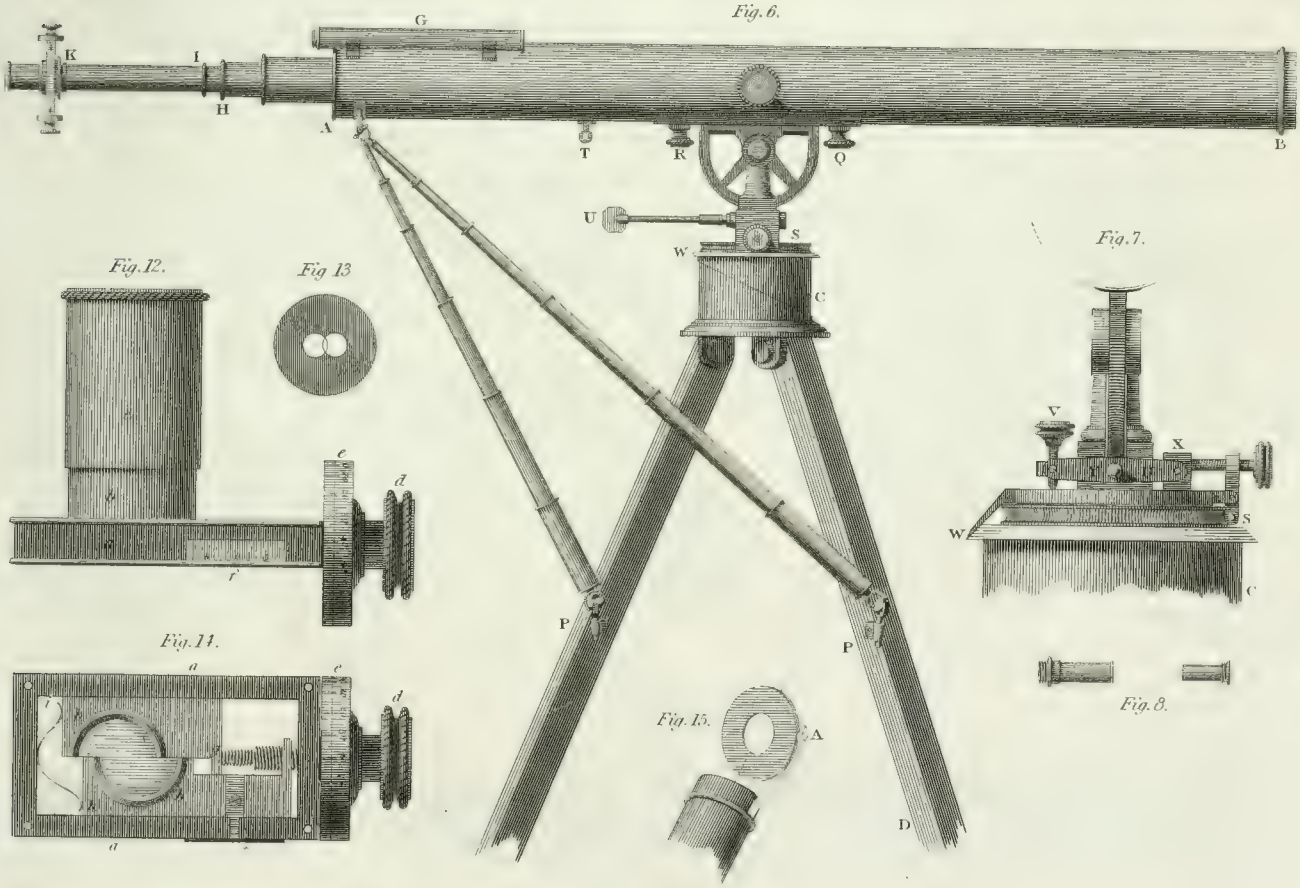

Fig. 6.

Fig. 12.

Fig 13

Fig. 14.

Fig. 15.

Fig. 7.

Fig. 8.

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ASTRONOMICAL INSTRUMENTS.

TELESCOPES chiefly Reflecting.

Fig. 3.

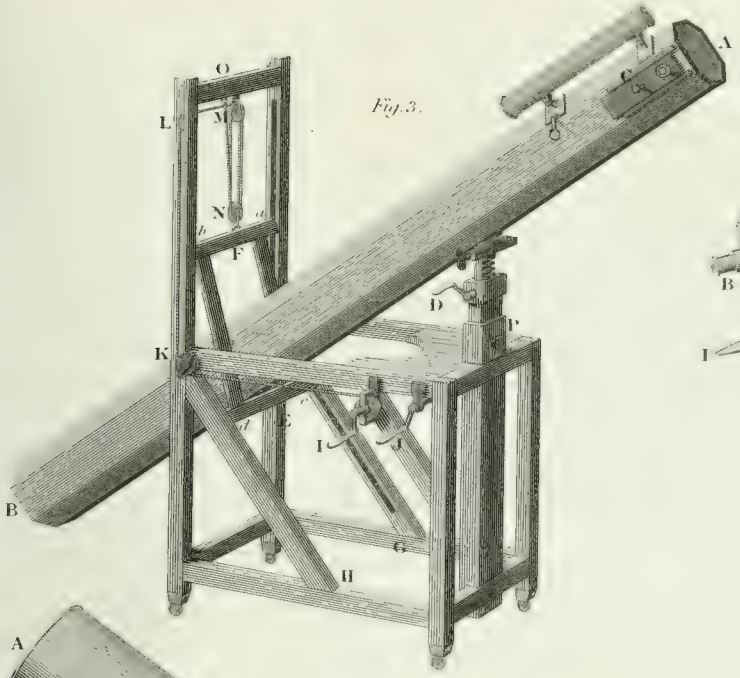
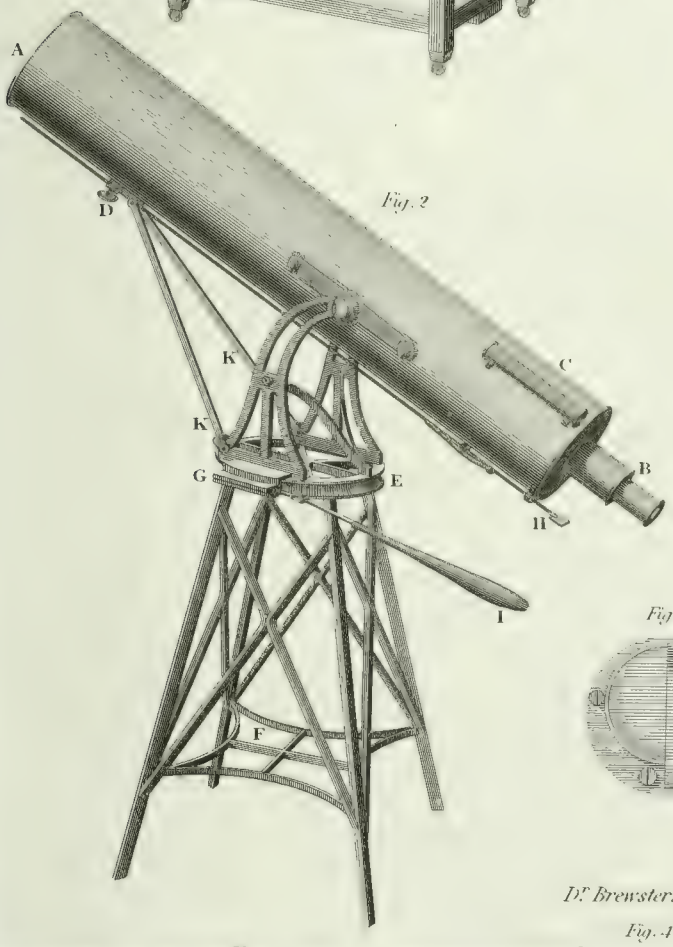


Fig. 1.

Fig. 2



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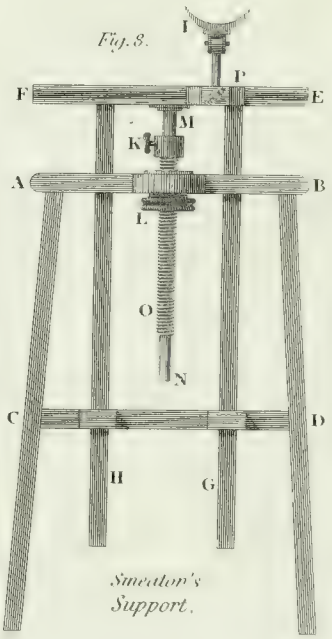


Smeaton's Support.

Fig. 6.

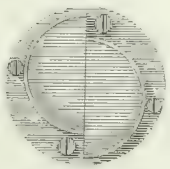
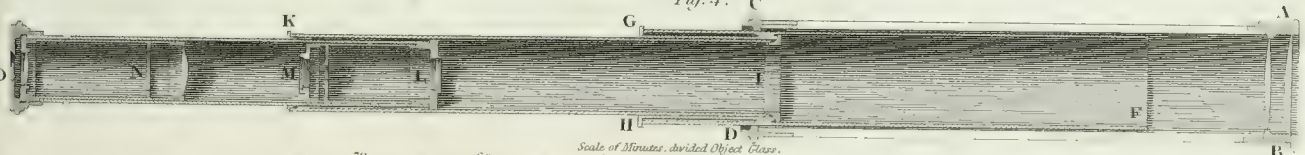


Fig. 7.

Dr. Brewster's Patent.

Fig. 4.



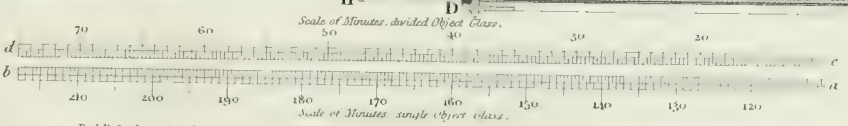


Fig 5.

J. Farey delin

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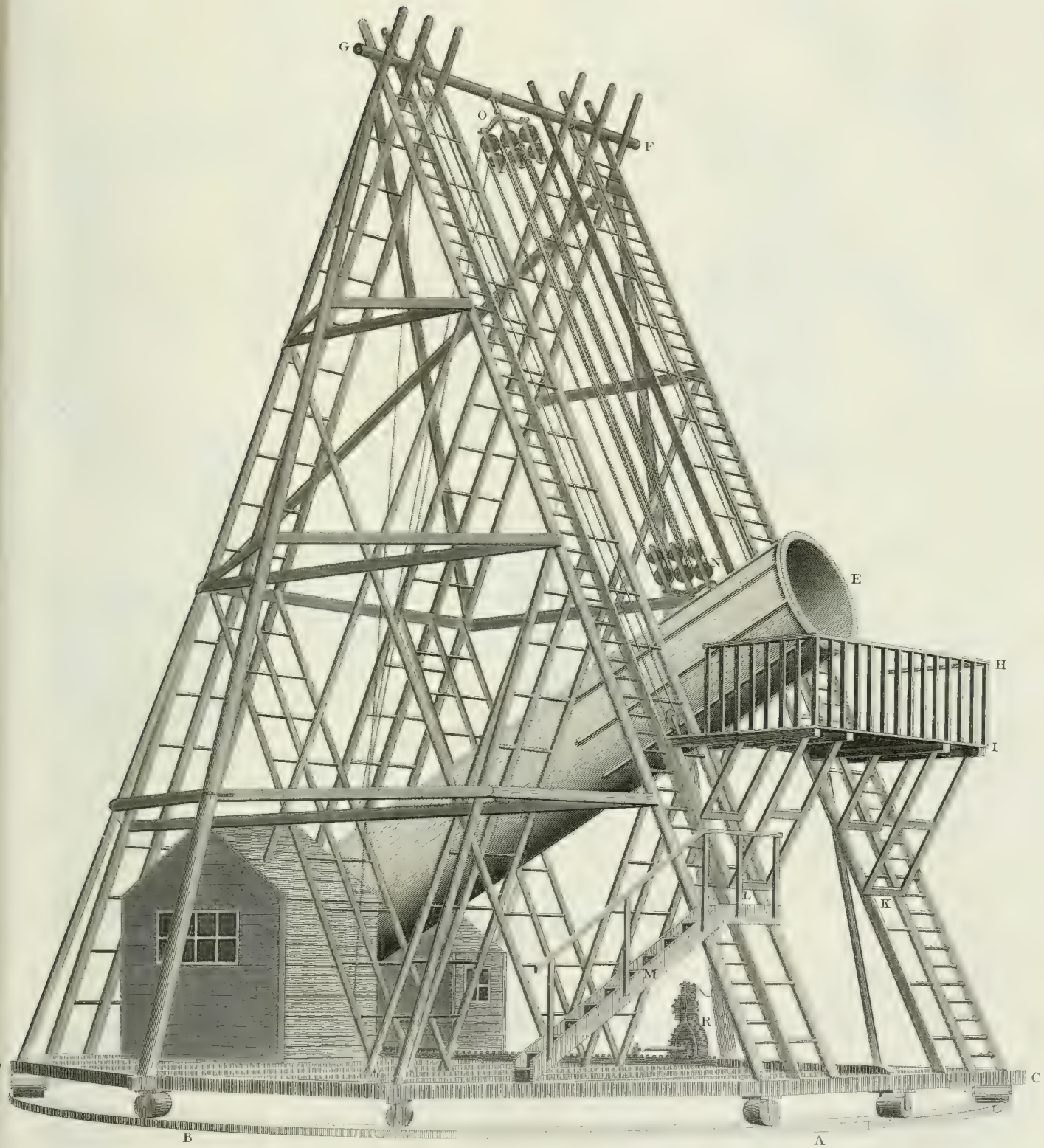
Dr. HERSCHEL'S, Forty Feet Reflecting TELESCOPE.



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ASTRONOMICAL INSTRUMENTS.

TRANSIT INSTRUMENTS.

Fig 5.

Fig 1

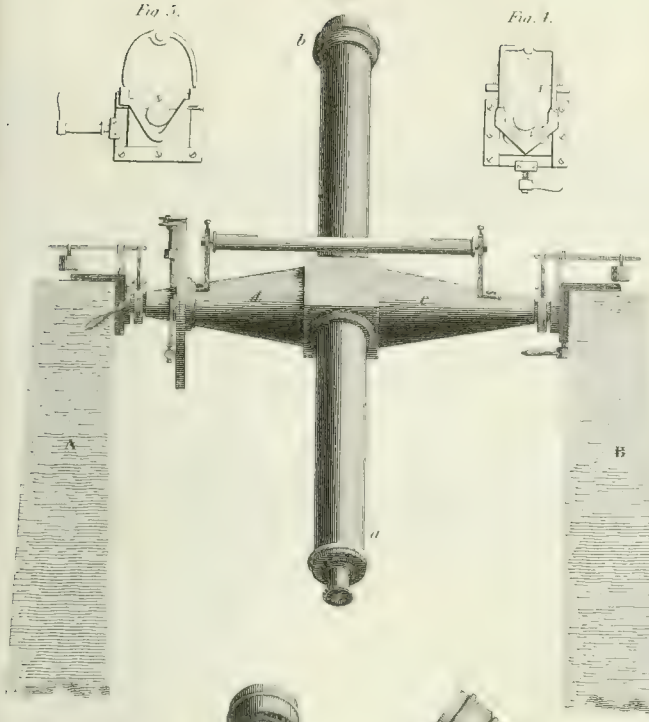


Fig 4.

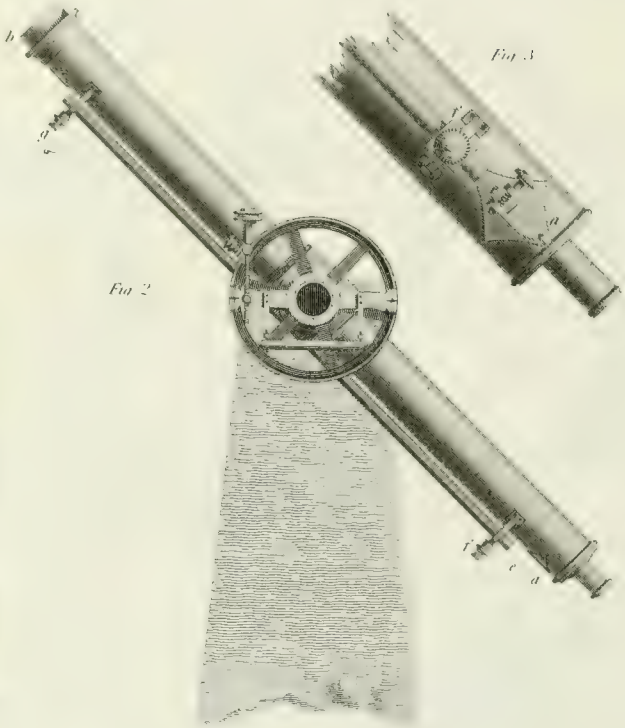


Fig 2

Fig 3

Fig 6

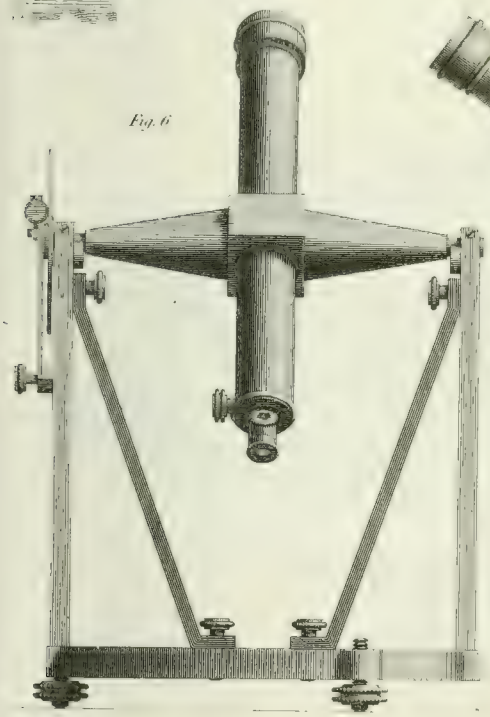
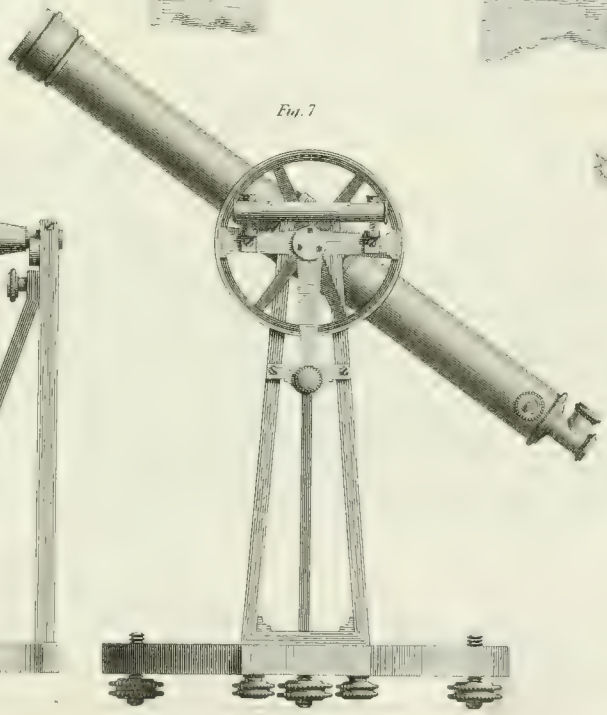


Fig 7



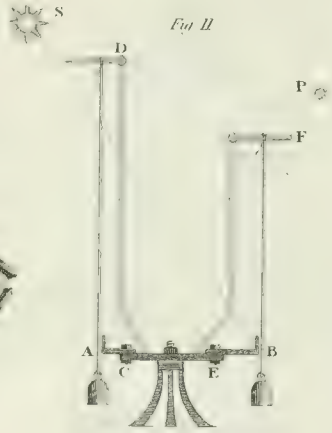


Fig 11

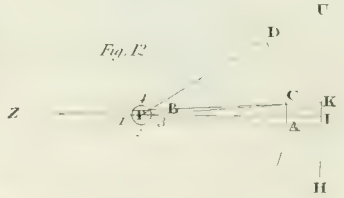


Fig 12

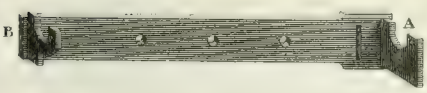
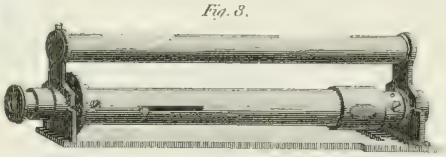


Fig 9

Fig 10

Fig 8.



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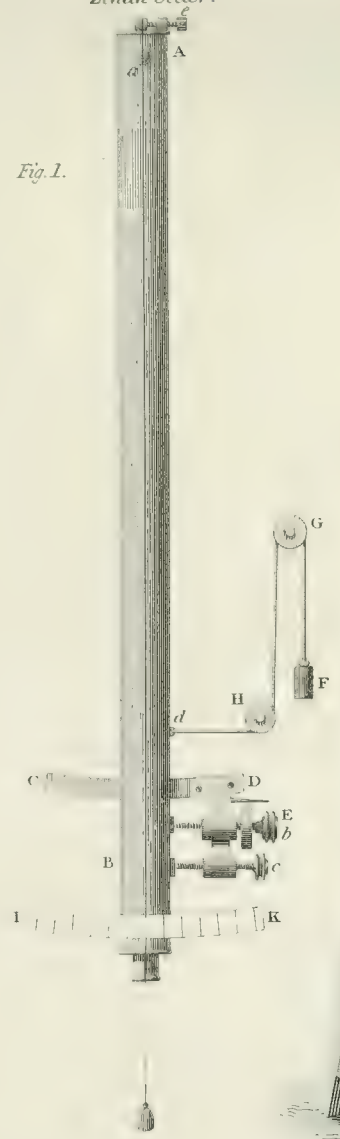
ZENITH SECTOR.

Graham's Zenith Sector.

Fig. 1.



Ramsden's Zenith Sector.

Fig. 2.

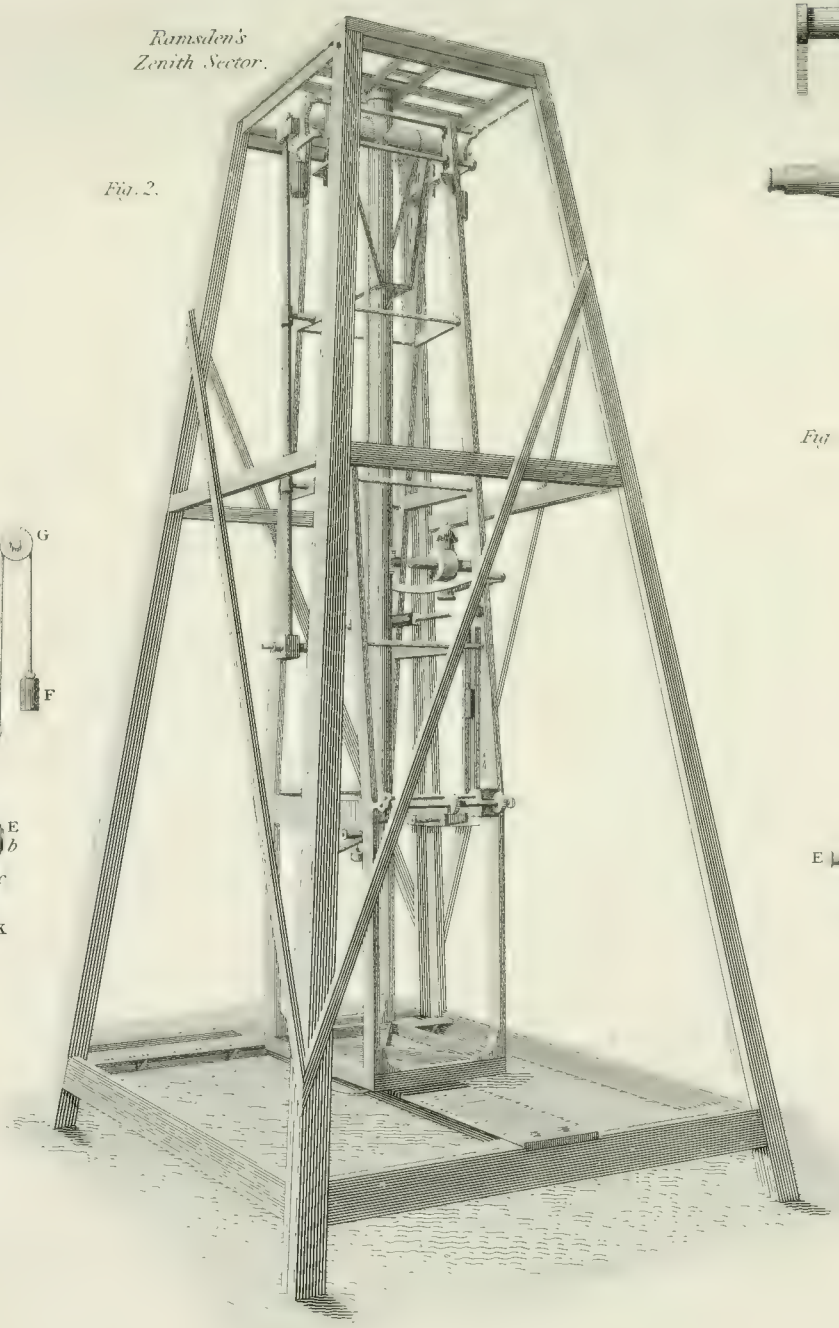


Fig. 6.

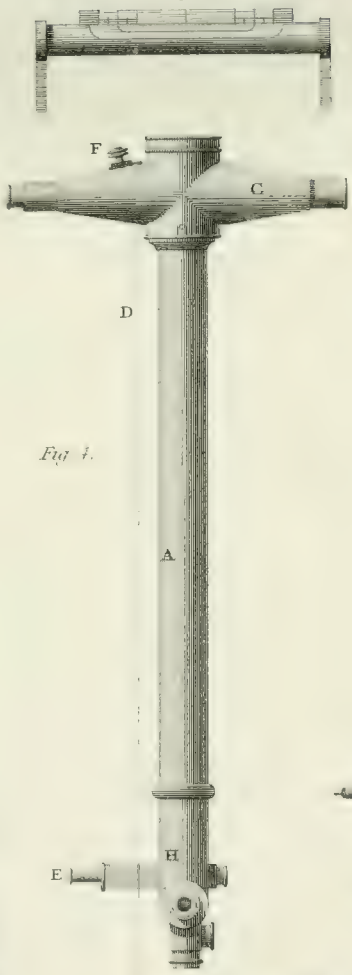


Fig. 4.

Dolland's Zenith Micrometer.

Fig. 3.

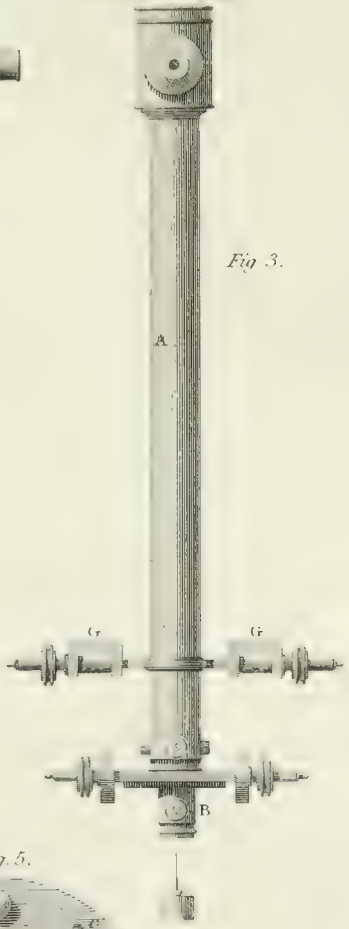
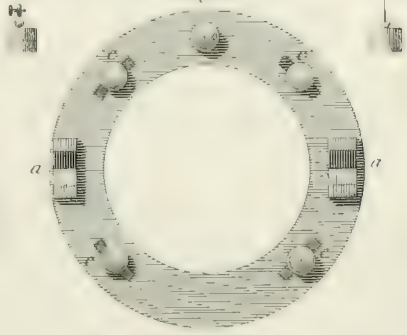


Fig. 5.



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